

A n l a g e

REDUNDANZANTEILE, KONTROLLIERBARKEITSWERTE UND ZUVERLÄSSIGKEITSWERTE
VON PHOTOGRAMMETRISCHEN BLÖCKEN

<u>I n h a l t</u>	<u>Seite</u>
1. Vorbemerkungen	183
2. Berechnungsmethode	183
2.1 Redundanzanteile	183
2.2 Kontrollierbarkeitswerte	183
2.3 Zuverlässigkeitswerte	184
2.4 Anteile u_{t_j}	184
2.4.1 Modellblöcke	184
2.4.2 Bündelblöcke	187
3. Zahlennachweis	189
3.1 Übersicht	189
3.2 Blockschemata	190
3.3 Darstellungsweise	191
3.4 Modellblöcke	193
3.4.1 Lageblöcke	193
3.4.2 Höhenblöcke	202
3.5 Bündelblöcke	208
Index zum Zahlennachweis	240

1. Vorbemerkungen

Die zahlenmäßige Darstellung der inneren und äußeren Zuverlässigkeit repräsentativer photogrammetrischer Blöcke verfolgt zwei Ziele:

- 1) Sie ist die Grundlage für die in den Vorträgen getroffenen allgemeinen Aussagen über die Zuverlässigkeit. Sie soll die gezogenen Schlußfolgerungen objektivieren und ein eigenes Urteil über die Qualität photogrammetrisch bestimmter Punkte ermöglichen.
- 2) Sie kann dem Anwender photogrammetrischer Blockausgleichungsprogramme als Hilfsmittel bei der Beurteilung der Ergebnisse dienen. Dies betrifft die Bewertung von Verbesserungen oder die Auswirkung grober Fehler auf das Ergebnis.

Wir haben daher Redundanz bei der Darstellung in Kauf genommen. Die Auswahl erhebt keinen Anspruch auf Vollständigkeit. Insbesondere konnten die in der Praxis vorkommenden unregelmäßigen Paßpunktfelder nur durch Prinzipbeispiele erfaßt werden.

2. Berechnungsmethode

2.1 Redundanzanteile

Die Redundanzanteile wurden durch Computersimulation bestimmt. An den schematisch angeordneten fehlerfreien Beobachtungen wurden jeweils einzeln grobe Fehler ∇l_i angebracht. Der Redundanzanteil ist dann

$$r_i = \frac{-\nabla v_i}{\nabla l_i}$$

wenn ∇v_i die aus dem Fehler resultierende (Änderung der) Verbesserung bezeichnet. Die Größe der Fehler ∇l_i lag in der Größenordnung $1^0/00$ der Basislänge. Daher sind die Werte r_i auch nicht genauer als $1^0/00$ und sind der Tendenz nach kleiner als die wahren Werte r_i . Die maximale Abweichung liegt in der Größenordnung von $5^0/00$.

2.2 Kontrollierbarkeitswerte δ'_{oi} (innere Zuverlässigkeit)

Alle Kontrollierbarkeitswerte δ'_{oi} werden nach

$$\delta'_{oi} = \delta_o \sqrt{\frac{1}{r_i}}$$

mit $\delta_o = 4$ bestimmt; $\delta_o = 4$ entspricht einer Signifikanzzahl $\alpha_o = 0,1\%$ und einem Mindestwert $\beta_o = 80\%$ für die Sicherheit, Fehler zu finden.

2.3 Zuverlässigkeitswerte $\bar{\delta}_{oi}$ (äußere Zuverlässigkeit)

Die Zuverlässigkeitswerte $\bar{\delta}_{oi}$ bestimmen wir nach

$$\bar{\delta}_{oi} = \delta_{oi} \sqrt{\frac{1 - u_{ti} - r_i}{r_i}}$$

2.4 Die Anteile u_{ti}

Die Anteile u_{ti} der Beobachtungen erhalten wir für die Grundelemente der photogrammetrischen Blockausgleichung aus

$$u_{ti} = b_i^T (B^T P B)^{-1} b_i p_i$$

2.4.1 Modellblöcke

Die Blockausgleichung mit PAT-M43 sieht die getrennte Ausgleichung von Lage und Höhe vor. Bei der Lageblockausgleichung sind die Projektionszentren nicht beteiligt. Bei der Höhenausgleichung verknüpfen die Modelle über alle 3 Koordinaten der Projektionszentren.

Als Transformationsparameter zählen

bei der Lageblockausgleichung pro Modell

- Verschiebung in x,y
- Drehung
- Maßstab

bei der Höhenblockausgleichung

- pro Modell Verschiebung in z
Drehung in x und y
- die Koordinaten x, y, z der Projektionszentren.

Lage: Die u_{t_i} lassen sich getrennt für jedes Modell berechnen. Für jeden Punkt i im Modell j ergibt sich der Anteil u_{t_i} aus

$$u_{t_i} = \frac{1}{n_j} + \frac{s_i^2}{[s_i^2]_j}$$

mit n_j Anzahl der Punkte im Modell j
 s_i Abstand des Punktes i vom Schwerpunkt aller Punkte im Modell j

0.5	0.5	0.25	0.25	0.394	0.394	.197	.197
		0.25	0.25			.197	.197
				0.212	0.212	.106	.106
						.106	.106
0.5	0.5	0.25	0.25	0.394	0.394	.197	.197
		0.25	0.25			.197	.197

E4 E8 E6 E12

u_{t_i} für Lage-Modelle

Höhe:

Die u_{t_i} lassen sich wegen der Verknüpfung der Modelle über die Projektionszentren nur streifenweise berechnen. Die u_{t_i} sind in der Fig. 1 und 2 für E4 und E8 Höhenblöcke mit 12 Streifen angegeben. An den Stirnseiten der Streifen sind bei den ersten bzw. den letzten beiden Punktreihen Randeffekte zu beobachten. Ab der 3. Punktreihe gelten die folgenden Werte:

MP : z	.570	.570	.319	.319
			.319	.319
PZ : x	.646	.646	.595	.595
y	.558	.558	.532	.532
z	.656	.656	.595	.595
MP : z	.570	.570	.319	.319
			.319	.319

E4 E8

u_{t_i} für Höhenmodelle
ohne Randbereich, ab 3. Modell

Die Beobachtungen x und y der Projektionszentren haben die doppelte Standardabweichung wie die übrigen Punkte, die gleichgewichtig sind.

.687225	.605493	.570640	.571340	.570049	.570069	.570042	.570042	.570042	.570042
(x)	.663595	.663596	.646161	.646161	.645836	.645836	.645834	.645834	.645834
(y)	.559967	.559965	.558280	.558281	.558274	.558274	.558274	.558274	.558274
(z)	.661136	.661137	.656086	.656085	.655819	.655816	.655812	.655812	.655812
.687225	.605493	.570640	.571340	.570049	.570069	.570042	.570042	.570042	.570042

$\sum = 6$

Figur 1: ut_i für 4 Verknüpfungspunkte pro Modell bei einem 12-Modelle-Streifen*

.356922	.33209	.319369	.319477	.319301	.319301	.319300	.319300	.319300	.319300
.356922	.33209	.319369	.319477	.319301	.319301	.319300	.319300	.319300	.319300
(x)	.602719	.602719	.595527	.595528	.595482	.595480	.595480	.595480	.595480
(y)	.532341	.532340	.531836	.531835	.531834	.531834	.531834	.531834	.531834
(z)	.597723	.597726	.595521	.595521	.595479	.595480	.595480	.595480	.595480
.356922	.33209	.319369	.319477	.319301	.319301	.319300	.319300	.319300	.319300
.356922	.33209	.319369	.319477	.319301	.319301	.319300	.319300	.319300	.319300

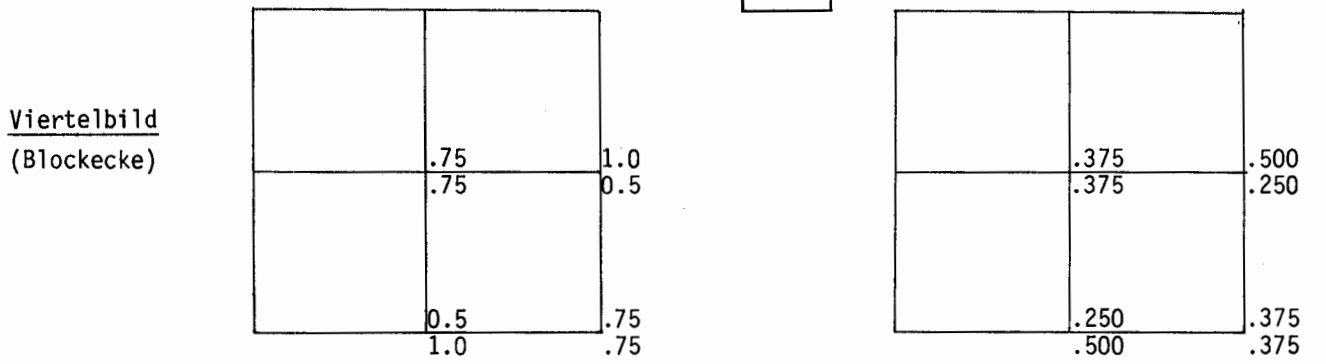
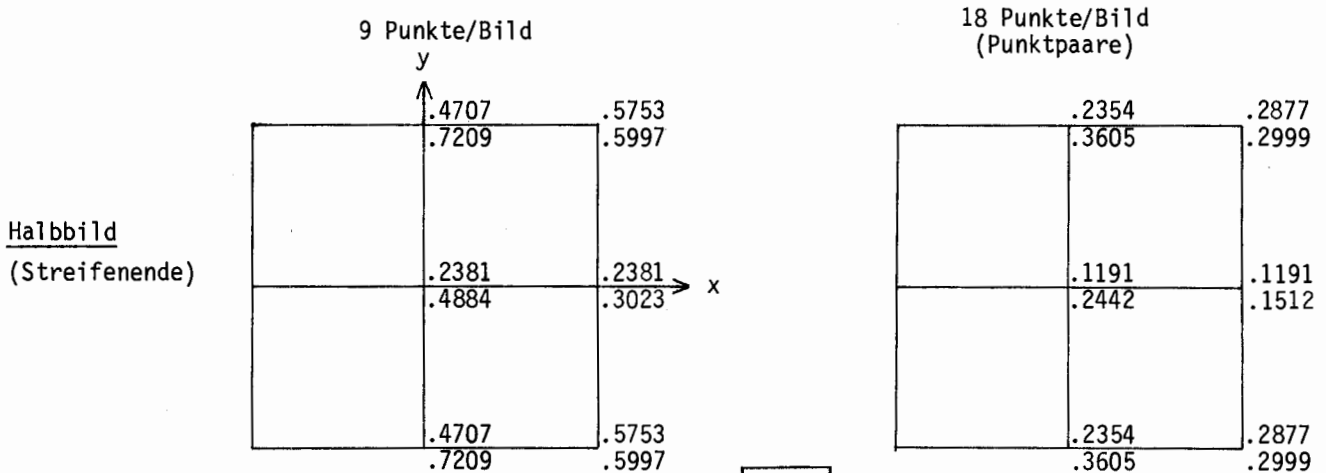
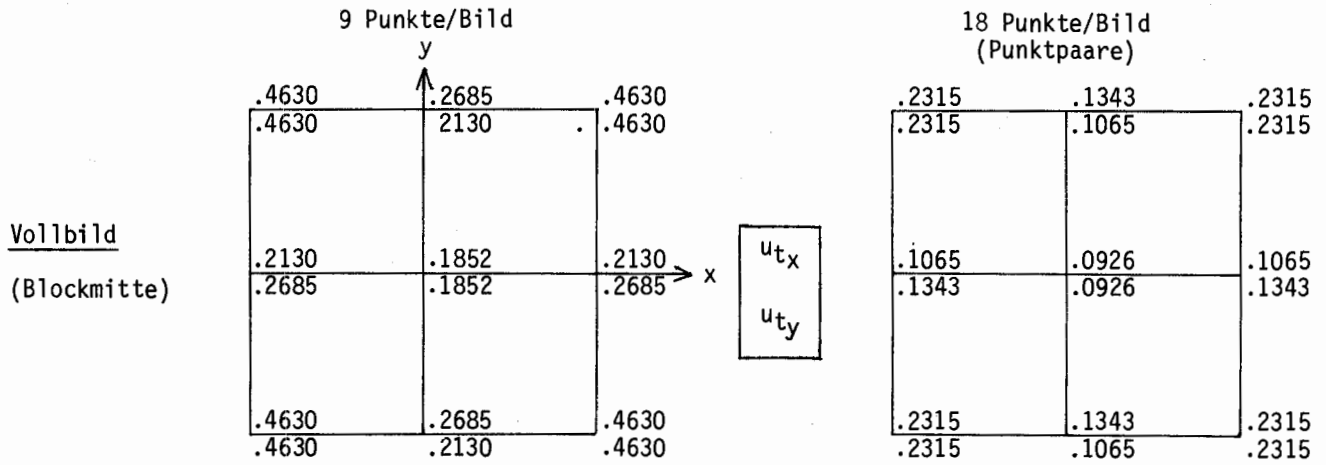
$\sum = 6$

Figur 2: ut_i für 8 Verknüpfungspunkte pro Modell bei einem 12-Modelle-Streifen*

* Die Werte wurden auf Grund der Symmetrie nur für die ersten 6 Modelle dargestellt.

2.4.2 Bündelblöcke

Bei der Bündelblockausgleichung zählen als Transformationsparameter die 6 Elemente der äußeren Orientierung jedes Bildes. Die u_{tj} lassen sich für jedes Bild getrennt berechnen.



Vollbild
 (Blockmitte)

.2376	.1194	.1035	.1194	.2376	
.2376	.1371	.1035	.1371	.2376	
.1371	.0718	.0735	.0718	.1371	
.1194	.0718	.0559	.0718	.1194	
.1035	.0559	.0635	.0559	.1035	
.1035	.0735	.0635	.0735	.1035	x
.1371	.0718	.0735	.0718	.1371	
.1194	.0718	.0559	.0718	.1194	
.2376	.1194	.1035	.1194	.2376	
.2376	.1371	.1035	.1371	.2376	

25 Punkte/Bild

Halbbild
 (Blockrand)

		.1692	.2058	.4444	
		.1829	.2439	.4270	
		.1146	.1187	.2594	
		.0957	.1246	.2113	
		.0964	.0896	.1977	
		.1101	.1283	.1829	x
		.1146	.1187	.2594	
		.0957	.1246	.2113	
		.1692	.2058	.4444	
		.1829	.2439	.4270	

Punktgruppen mit 2 und mehr Punkten/Gruppe

Die u_{t_j} für Punktgruppen mit $2(n)$ Punkten sind halb $(1/n)$ so groß wie die oben angegebenen Werte.

3. Zahlennachweis

3.1 Übersicht

Es wurden nicht alle Kombinationen der Blockparameter untersucht, um den Aufwand in Grenzen zu halten. Die fast vollständige Unabhängigkeit der Blockparameter untereinander erlaubt eine getrennte Untersuchung. Daher ist die Zahl der unmittelbar vergleichbaren Blöcke beschränkt. Die Tabelle auf S.240 gibt eine Übersicht über die im folgenden dargestellten Blöcke.

Freie Blöcke (S. 193 - S. 196)

Nur bei Lage-Modellblöcken wurde die Zuverlässigkeit freier Blöcke berechnet. Sie zeigen

- die Homogenität im Innern bei Blöcken mit 3 oder mehr Streifen
- die hohe Zuverlässigkeit der Doppelblöcke
- im Vergleich zu Blöcken mit großer Überbrückungsdistanz die Unabhängigkeit von den Paßpunkten.

Doppelpunkte (S. 197 - S. 201)

Lage-Modellblöcke mit 4 Punktgruppen, 2 Punkte/Gruppe wurden im Hinblick auf Größe und Paßpunktintervall untersucht. Sie zeigen:

- Die Unabhängigkeit der Zuverlässigkeit der photogrammetrischen Beobachtungen von der Größe der Blöcke und der Paßpunktbesetzung
- Die Abhängigkeit der Zuverlässigkeit der Paßpunkte von der Überbrückungsdistanz i .

Höhen-Modellblöcke (S. 202 - S. 207)

Höhen-Modellblöcke mit 4 bzw. 8 Verknüpfungspunkten wurden im Hinblick auf die Zuverlässigkeit der Projektionszentren und der Paßpunkte untersucht.

Sie zeigen

- Die hohe Zuverlässigkeit der photogrammetrischen Beobachtungen schon bei 4 Verknüpfungspunkten pro Modell, einschließlich der Projektionszentren
- Die schwache Zuverlässigkeit der Höhenpaßpunktketten.

Bündelblöcke (S. 208 - S. 239)

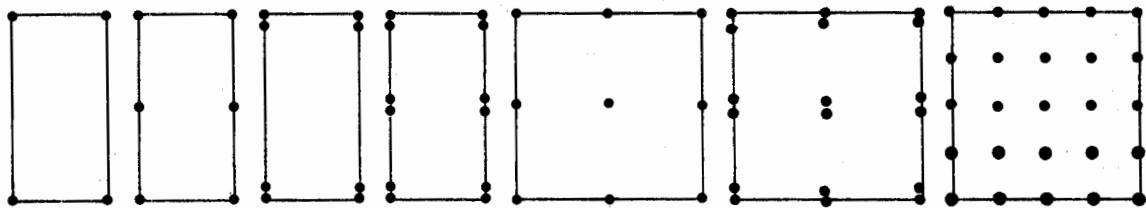
Die Struktur von Bündelblöcken ist mit der von Modellblöcken vergleichbar, weshalb auf die Berechnung freier Bündelblöcke und auf die Variation der Blockgröße verzichtet wurde. Dagegen wurden zusätzlich Blöcke mit 25 Punkten pro Bild und bei Doppelblöcken Blöcke mit Randversteifung untersucht. Sie zeigen

- Die Schwäche der Bündelblöcke mit $q = 20\%$ wegen der Punkte mit nur 3 Strahlen
- Die Wirksamkeit der Randversteifung.

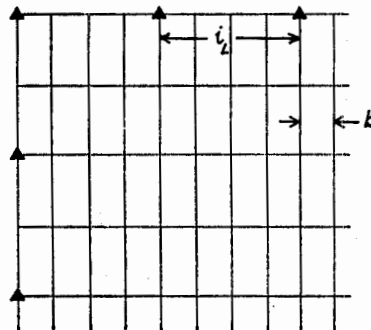
3.2 Blockschemata

Die Blöcke sind nach einem einheitlichen Schema aufgebaut:

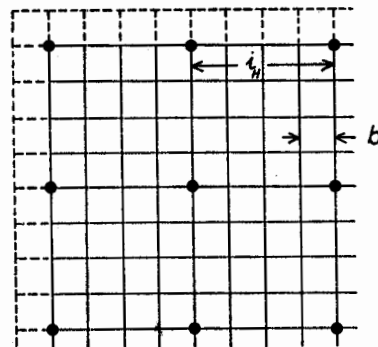
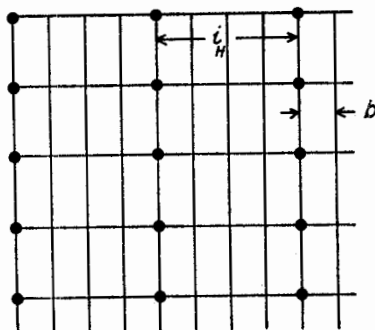
- Die Querüberdeckung beträgt 20 % oder 60 %. Bei freien Blöcken wurden die Doppelblöcke als Kreuzverband gerechnet.
- Die Punktanordnung geht von der regelmäßigen Anordnung der 9 Punkte im Bild aus. Bei den Modellblöcken mit 20 % entfallen zum Teil die Punkte in der Streifenmitte. Andererseits werden Blöcke mit Punktgruppen von 2 Punkten pro Gruppe und bei Bündelblöcken auch Versionen mit 25 regelmäßig angeordneten Punkten untersucht. Die Punkte der Punktgruppen haben gleiche Koordinaten. Die Modelle sind rechteckig mit einem Seitenverhältnis 1:2.



- Die Anordnung der Lagepaßpunkte ist in allen Fällen gleich: Der Rand der Blöcke wird mit Lagepaßpunkten im Abstand i_L -Basislängen besetzt.



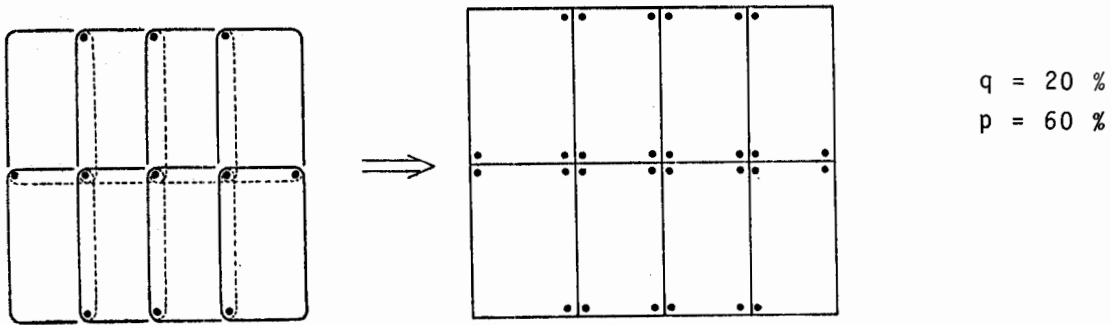
- Die Anordnung der Höhenpaßpunkte richtet sich nach der Querüberdeckung. Bei 20 % Querüberdeckung sind Höhenpaßpunktketten im Abstand von i Basislängen gewählt. Bei 60 % Querüberdeckung sind die Höhenpaßpunkte in einem Raster mit der Weite von i Basislängen gewählt. Bei Bündelblöcken stimmt die Überbrückungsdistanz i_L für die Lage und i_H für die Höhe überein.



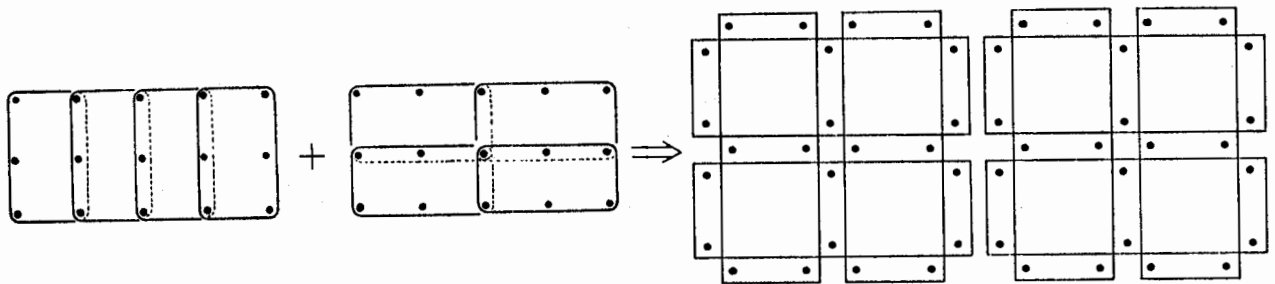
3.3 Darstellungsweise

Die Darstellung der Zuverlässigkeitsmaße ist modell- bzw. bildbezogen. Um die Zuordnung untereinander und die Lage der Modelle bzw. Bilder im Block zu berücksichtigen, werden die sich überlappenden Einheiten so über- bzw. nebeneinander dargestellt, daß der ursprüngliche Zusammenhang möglichst deutlich wird.

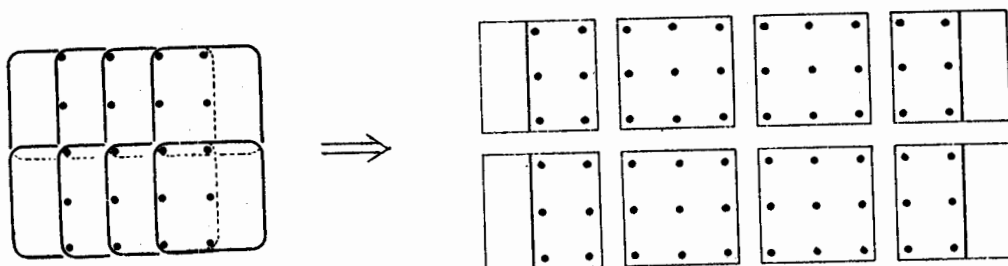
Bei Modellblöcken ist dies unproblematisch:



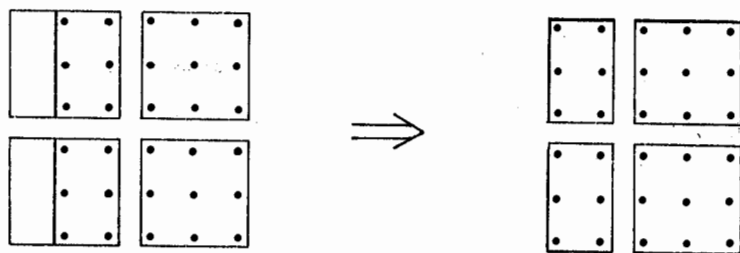
bzw. bei den Kreuzverbänden:



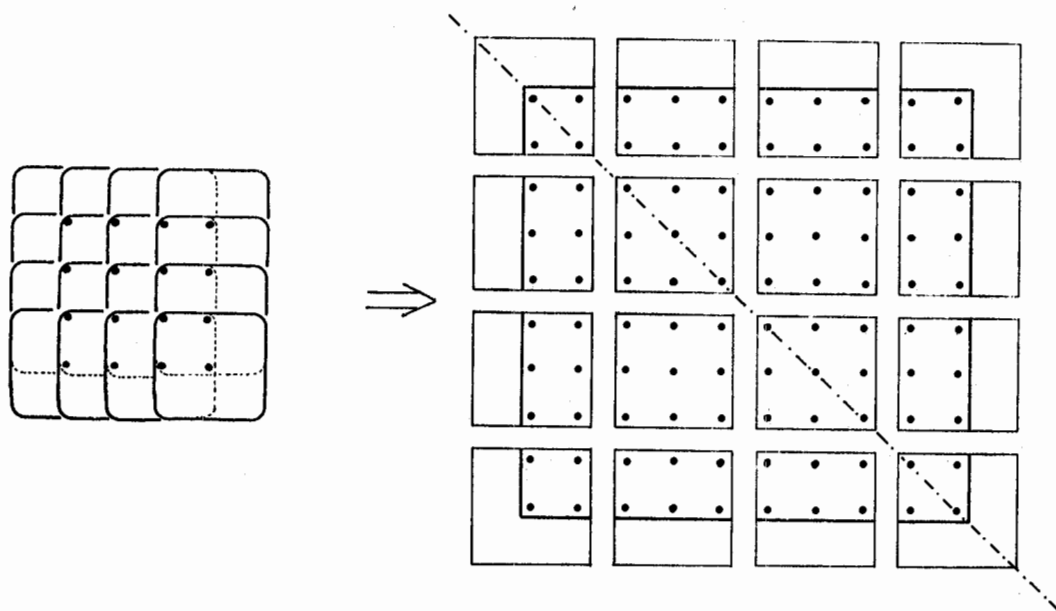
Bei Bündelblöcken führt die Darstellung eines quadratischen Blocks zu einem rechteckigen Schema.



Die Bilder am Streifenende sind "abgeschnitten" dargestellt



Für Blöcke mit 60 % Querüberdeckung erhält man folgende Darstellung:



Pro Beobachtung werden der Redundanzanteil r_i , der Kontrollierbarkeitswert δ'_{oi} und der Zuverlässigkeitswert $\bar{\delta}'_{oi}$ untereinander angegeben.

Bei den Lage-Modellblöcken stimmen die Werte für x- und y-Koordinate überein; sie sind daher nur einmal angegeben. Bei den Bündelblöcken mit 20 % Querüberdeckung sind die Werte für die x- und die y-Koordinaten auf zwei Figuren verteilt. Die Bündelblöcke mit 60 % Querüberdeckung sind bezüglich der x- und y-Achse symmetrisch. Daher sind nur die Werte für die x-Koordinaten angegeben. Die entsprechenden Werte für die y-Koordinaten erhält man durch Spiegelung an der Hauptdiagonalen (vgl. obige Figur).

	.035	.035	.044	.044	.046
	21.	21.	19.	19.	18.
	14.6	14.6	12.9	12.9	12.6
.13	.16	.19	.20	.21	.21
11.	10.	9.2	8.9	8.7	8.7
6.7	5.8	5.1	4.9	4.7	4.7
.13	.18	.21	.22	.23	.23
11.	9.4	8.7	8.5	8.3	8.3
6.7	5.3	4.7	4.5	4.3	4.3
.13	.18	.21	.22	.23	.23
11.	9.4	8.7	8.5	8.3	8.3
6.7	5.3	4.7	4.5	4.3	4.3
.13	.16	.19	.20	2.1	.21
11.	10.	9.2	8.9	8.7	8.7
6.7	5.8	5.1	4.9	4.7	4.7
	.035	.035	.044	.044	0.46
	21.	21.	19.	19.	18.
	14.6	14.6	12.9	12.9	12.6

	.26	.26	.26	.26	.26
	7.8	7.8	7.8	7.8	7.8
	5.5	5.5	5.5	5.5	5.5
.31	.47	.48	.48	.48	.48
7.2	5.9	5.8	5.8	5.8	5.8
4.8	3.1	3.0	3.0	3.0	3.0
.31	.46	.47	.48	.48	.48
7.2	5.9	5.9	5.8	5.8	5.8
4.8	3.2	3.1	3.0	3.0	3.0
.31	.46	.47	.48	.48	.48
7.2	5.9	5.9	5.8	5.8	5.8
4.8	3.2	3.1	3.0	3.0	3.0
.31	.47	4.8	4.8	4.8	4.8
7.2	5.8	5.8	5.8	5.8	5.8
4.8	3.1	3.0	3.0	3.0	3.0
	.26	.26	.26	2.6	.26
	7.8	7.8	7.8	7.8	7.8
	5.5	5.5	5.5	5.5	5.5

M	$i = \infty$ b
E 4	20 %
3x6	Lage



M	$i = \infty$ b
E 8	20 %
3x6	Lage

	.12	.12	.13	.13	.13
	12.	12.	11.	11.	11.
	8.1	8.1	7.7	7.7	7.7
.34	.34	.34	.34	.34	.34
6.9	6.9	6.9	6.9	6.9	6.9
4.6	4.6	4.6	4.6	4.6	4.6
.13	.24	.26	.27	.28	.28
11.	8.2	7.8	7.7	7.6	7.6
7.7	4.9	4.6	4.5	4.3	4.3
.13	.26	.29	.30	.31	.31
11.	7.8	7.4	7.3	7.2	7.2
7.7	4.6	4.2	4.0	3.9	3.9
.34	.34	.35	.35	.34	.34
6.9	6.9	6.8	6.8	6.8	6.8
4.6	4.6	4.5	4.5	4.6	4.6
.13	.26	.29	.30	.31	.31
11.	7.8	7.4	7.3	7.2	7.2
7.7	4.6	4.2	4.0	3.9	3.9
.13	.24	.26	.27	.28	.28
11.	8.2	7.8	7.7	7.6	7.6
7.7	4.9	4.6	4.5	4.3	4.3
.34	.34	.34	.34	.34	.34
6.9	6.9	6.9	6.9	6.9	6.9
4.6	4.6	4.6	4.6	4.6	4.6
.12	.12	.13	.13	.13	
12.	12.	11.	11.	11.	
8.1	8.1	7.7	7.7	7.7	

	.30	.30	.31	.31	.31
	7.3	7.3	7.1	7.1	7.1
	5.2	5.2	5.0	5.0	5.0
.41	.41	.41	.41	.41	.41
6.2	6.2	6.2	6.2	6.2	6.2
4.4	4.4	4.4	4.4	4.4	4.4
.32	.51	.51	.52	.52	.52
7.1	5.6	5.6	5.5	5.5	5.5
4.9	3.0	3.0	3.0	3.0	3.0
.32	.50	.51	.52	.52	.52
7.1	5.7	5.6	5.5	5.5	5.5
4.9	3.1	3.0	3.0	3.0	3.0
.41	.41	.41	.41	.41	.41
6.2	6.2	6.2	6.2	6.2	6.2
4.4	4.4	4.4	4.4	4.4	4.4
.32	.50	.51	.52	.52	.52
7.1	5.7	5.6	5.5	5.5	5.5
4.9	3.1	3.0	3.0	3.0	3.0
.32	.51	.51	.52	.52	.52
7.1	5.6	5.6	5.5	5.5	5.5
4.9	3.0	3.0	3.0	3.0	3.0
.41	.41	.41	.41	.41	.41
6.2	6.2	6.2	6.2	6.2	6.2
4.4	4.4	4.4	4.4	4.4	4.4
.30	.30	.31	.31	.31	
7.3	7.3	7.1	7.1	7.1	
5.2	5.2	5.0	5.0	5.0	

M	$i = \infty$ b
E 6	20 %
3x6	Lage

M	$i = \infty$ b
E 12	20 %
3x6	Lage

	.033 22.0 15.0	.033 22.0 15.0	.039 20.0 13.8
.120 11.5 7.10	.150 10.2 6.10	.180 9.40 5.30	.190 9.20 5.10
.120 11.5 7.10	.150 10.2 6.10	.180 9.40 5.30	.190 9.20 5.10
	.033 22.0 15.0	.033 22.0 15.0	.039 20.0 13.8

	.26 7.9 5.5	.26 7.9 5.5	.26 7.9 5.5
.31 7.2 4.8	.46 5.9 3.2	.48 5.8 3.0	.48 5.8 3.0
.31 7.2 4.8	.46 5.9 3.2	.48 5.8 3.0	.48 5.8 3.0
	.26 7.9 5.5	.26 7.9 5.5	.26 7.9 5.5

M	$i = \infty$ b
E 4	20 %
2x4	Lage

M	$i = \infty$ b
E 8	20 %
2x4	Lage



	.11 12. 8.5	.11 12. 8.5	.12 12. 8.1
.34 6.9 4.6	.34 6.9 4.6	.34 6.9 4.6	.34 6.9 4.6
.13 11.3 7.7	.23 8.3 5.1	.26 7.9 4.6	.26 7.8 4.6
.13 11.3 7.7	.23 8.3 5.1	.26 7.9 4.6	.26 7.8 4.6
	.34 6.9 4.6	.34 6.9 4.6	.34 6.9 4.6
	.11 12. 8.5	.11 12. 8.5	.12 12. 8.1

	.30 7.3 5.2	.30 7.3 5.2	.30 7.3 5.2
.42 6.2 4.3	.42 6.2 4.3	.42 6.2 4.3	.42 6.2 4.3
.31 7.2 5.0	.50 5.6 3.1	.51 5.6 3.0	.51 5.6 3.0
.31 7.2 5.0	.50 5.6 3.1	.51 5.6 3.0	.51 5.6 3.0
	.42 6.2 4.3	.42 6.2 4.3	.42 6.2 4.3
	.30 7.3 5.2	.30 7.3 5.2	.30 7.3 5.2

M	$i = \infty$ b
E 6	20 %
2x4	Lage

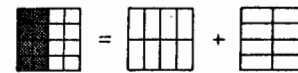
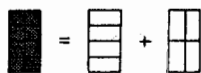
M	$i = \infty$ b
E12	20 %
2x4	Lage

	.39 6.4 4.1	.50 5.7 3.1	.50 5.7 3.1	.39 6.4 4.1
.39 6.4 4.1		.57 5.3 3.0		.39 6.4 4.1
.50 5.7 3.1		.64 5.0 2.5		.50 5.7 3.1
	.57 5.3 3.0		.64 5.0 2.5	.57 5.3 3.0
.50 5.7 3.1		.64 5.0 2.5		.50 5.7 3.1
.54 5.5 2.8		.72 4.7 2.0		.54 5.5 2.8
	.54 5.5 2.8		.62 5.1 2.2	.54 5.5 2.8
	.54 5.5 2.8		.62 5.1 2.2	.54 5.5 2.8
.54 5.5 2.8		.72 4.7 2.0		.54 5.5 2.8
.50 5.7 3.1		.64 5.0 2.5		.50 5.7 3.1
	.57 5.3 3.0		.64 5.0 2.5	.57 5.3 3.0
.50 5.7 3.1		.64 5.0 2.5		.50 5.7 3.1
.29 6.4 4.1		.57 5.3 3.0		.39 6.4 4.1
	.39 6.4 4.1		.50 5.7 3.1	.39 6.4 4.1

	.39 6.4 4.1	.50 5.7 3.1	.50 5.7 3.1	.55 5.4 2.7
.39 6.4 4.1		.57 5.3 3.0		.55 5.4 2.7
.50 5.7 3.1		.64 5.0 2.5		.62 5.1 2.2
	.57 5.3 3.0		.65 5.0 2.4	.72 4.7 2.0
.50 5.7 3.1		.65 5.0 2.4		.63 5.0 2.3
.55 5.4 2.7		.72 4.7 2.0		.65 5.0 1.9
	.55 5.4 2.7		.62 5.1 2.2	.65 5.0 1.9
	.55 5.4 2.7		.62 5.1 2.2	.65 5.0 1.9
.55 5.4 2.7		.72 4.7 2.0		.65 5.0 1.9
.50 5.7 3.1		.65 5.0 2.4		.63 5.0 2.3
	.57 5.3 3.0		.65 5.0 2.4	.72 4.7 2.0
.50 5.7 3.1		.64 5.0 2.5		.62 5.1 2.2
.39 6.4 4.1		.57 5.3 3.0		.55 5.4 2.7
	.39 6.4 4.1		.50 5.7 3.1	.55 5.4 2.7

M	$i = \infty$ b
D 6	60 %
1x4	Lage

M	$i = \infty$ b
D 6	60 %
2x4	Lage

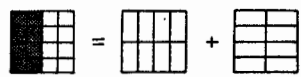
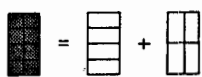


.28 7.6 4.3	.34 6.9 3.5	.34 6.9 3.5	.28 7.6 4.3
.28 7.6 4.3		.47 5.8 3.3	.28 7.6 4.3
.34 6.9 3.5		.54 5.5 2.7	.34 6.9 3.5
	.47 5.8 3.3	.54 5.5 2.7	.47 5.8 3.3
.34 6.9 3.5		.54 5.5 2.7	.34 6.9 3.5
.33 7.0 3.7		.60 5.2 2.2	.33 7.0 3.7
.34 6.9 3.5	.41 6.2 2.8	.41 6.2 2.8	.34 6.9 3.5
.34 6.9 3.5	.41 6.2 2.8	.41 6.2 2.8	.34 6.9 3.5
.33 7.0 3.7		.60 5.2 2.2	.33 7.0 3.7
.34 6.9 3.5	.54 5.5 2.7	.54 5.5 2.7	.34 6.9 3.5
.47 5.8 3.3	.54 5.5 2.7	.54 5.5 2.7	.47 5.8 3.3
.34 6.9 3.5		.54 5.5 2.7	.34 6.9 3.5
.28 7.6 4.3	.47 5.8 3.3	.47 5.8 3.3	.28 7.6 4.3
.28 7.6 4.3	.34 6.9 3.5	.34 6.9 3.5	.28 7.6 4.3

.28 7.6 4.3	.34 6.9 3.5	.34 6.9 3.5	.34 6.9 3.5
.28 7.6 4.3		.47 5.8 3.3	.35 6.8 3.4
.34 6.9 3.5		.55 5.4 2.6	.41 6.2 2.8
	.47 5.8 3.3	.55 5.4 2.6	.60 5.2 2.2
.34 6.9 3.5		.55 5.4 2.6	.43 6.1 2.6
.34 6.9 3.5		.60 5.2 2.2	.43 6.1 2.6
.35 6.8 3.4	.41 6.2 2.8	.43 6.1 2.6	.43 6.1 2.6
.35 6.8 3.4	.41 6.2 2.8	.43 6.1 2.6	.43 6.1 2.6
.34 6.9 3.5		.60 5.2 2.2	.43 6.1 2.6
.34 6.9 3.5	.54 5.5 2.7	.55 5.4 2.6	.43 6.1 2.6
.47 5.8 3.3	.54 5.5 2.7	.55 5.4 2.6	.60 5.2 2.2
.34 6.9 3.5		.55 5.4 2.6	.41 6.2 2.8
.28 7.6 4.3	.47 5.8 3.3	.47 5.8 3.3	.35 6.8 3.4
.28 7.6 4.3	.34 6.9 3.5	.34 6.9 3.5	.34 6.9 3.5

M	$i = \infty$ b
D12	60 %
1x4	Lage

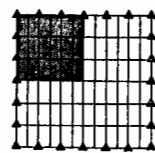
M	$i = \infty$ b
D12	60 %
2x4	Lage



.237 8.22 7.18	.376 6.52 5.15	.377 6.51 5.14	.376 6.52 5.15
.386 6.44 5.05			
.389 6.41 5.01			
.388 6.42 5.02			

.237 .308 8.22 7.21 7.18 4.79 .436 .489 6.06 5.72 3.39 2.92	.308 .295 7.21 7.36 4.79 4.79 .491 .501 5.71 5.65 2.91 2.82	.295 .313 7.36 7.15 4.79 4.73 .501 .494 5.65 5.69 2.82 2.88	.313 .296 7.15 7.35 4.73 4.95 .494 .501 5.69 5.65 2.88 2.82	.296 .313 7.35 7.15 4.95 4.73 .501 .494 5.65 5.69 2.82 2.88	.313 .296 7.15 7.35 4.73 4.95 .494 .501 5.69 5.65 2.88 2.82
.436 .498 6.06 5.67 3.39 2.85 .443 .500 6.01 5.66 3.33 2.83	.501 .502 5.65 5.65 2.82 2.81 .501 .502 5.65 5.65 2.82 2.81	.502 .501 5.65 5.65 2.81 2.82 .502 .502 5.65 5.65 2.81 2.81	.501 .501 5.65 5.65 2.82 2.82 .502 .502 5.65 5.65 2.81 2.81	.501 .501 5.65 5.65 2.82 2.82 .501 .501 5.65 5.65 2.82 2.82	.501 .501 5.65 5.65 2.82 2.82 .501 .501 5.65 5.65 2.82 2.82
.443 .500 6.01 5.66 3.33 2.83 .442 .500 6.02 5.66 3.34 2.83	.501 .502 5.65 5.65 2.82 2.81 .501 .502 5.65 5.65 2.82 2.81	.502 .502 5.65 5.65 2.81 2.81 .502 .502 5.65 5.65 2.81 2.81	.501 .501 5.65 5.65 2.82 2.82 .501 .501 5.65 5.65 2.82 2.82	.501 .501 5.65 5.65 2.82 2.82 .501 .501 5.65 5.65 2.82 2.82	.501 .501 5.65 5.65 2.82 2.82 .501 .501 5.65 5.65 2.82 2.82

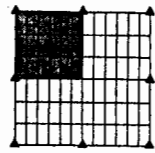
M	i = 2b
E 8	20 %
6x12	Lage



.083 13.9 13.3	.198 8.99 8.05
-----------------------------	-----------------------------

.083 .283 13.9 7.52 13.3 5.14 .329 .466 6.97 5.86 4.52 3.12	.283 .285 7.52 7.49 5.14 5.11 .480 .483 5.77 5.76 3.00 2.97	.285 .286 7.49 7.48 5.11 5.09 .486 .487 5.74 5.73 2.95 2.94	.286 .287 7.48 7.47 5.09 5.08 .488 .489 5.73 5.72 2.93 2.92	.287 .290 7.47 7.43 5.08 5.04 .498 .492 5.72 5.70 2.92 2.90	.290 .285 7.43 7.49 5.04 5.11 .491 .498 5.71 5.67 2.91 2.85
.329 .477 6.97 5.79 4.52 3.03 .332 .480 6.94 5.77 4.49 3.00	.491 .494 5.71 5.69 2.91 2.88 .492 .496 5.70 5.68 2.90 2.86	.498 .498 5.67 5.67 2.85 2.85 .499 .499 5.66 5.66 2.84 2.84	.499 .499 5.66 5.66 2.84 2.84 .499 .500 5.66 5.66 2.84 2.83	.499 .499 5.66 5.66 2.84 2.84 .500 .500 5.66 5.66 2.83 2.83	.498 .499 5.67 5.66 2.85 2.84 .500 .501 5.66 5.65 2.83 2.82
.332 .478 6.94 5.79 4.49 3.02 .385 .493 6.45 5.70 3.89 2.89	.491 .495 5.71 5.69 2.91 2.87 .496 .500 5.68 5.66 2.86 2.83	.498 .499 5.67 5.66 2.85 2.84 .499 .500 5.66 5.66 2.84 2.83	.500 .500 5.66 5.66 2.83 2.83 .500 .500 5.66 5.66 2.83 2.83	.500 .500 5.66 5.66 2.83 2.83 .500 .500 5.66 5.66 2.83 2.83	.500 .500 5.66 5.66 2.83 2.83 .500 .500 5.66 5.66 2.83 2.83

M	i = 6b
E 8	20 %
6x12	Lage



0.25
25.3
25.0

.250	.272
25.3	7.67
25.0	5.30
.320	.461
7.07	5.89
4.64	3.17

.272	.276
7.67	7.61
5.30	5.24
.475	.480
5.80	5.77
3.04	3.00

.276	.278
7.61	7.59
5.24	5.21
.484	.485
5.75	5.74
2.97	2.96

.278	.278
7.59	7.59
5.21	5.21
.486	.487
5.74	5.73
2.95	2.94

.278	.278
7.59	7.59
5.21	5.21
.487	.487
5.73	5.73
2.94	2.94

.278	.278
7.59	7.59
5.21	5.21
.487	.487
5.73	5.73
2.94	2.94

.320	.472
7.07	5.82
4.64	3.07
.323	.475
7.04	5.80
4.60	3.04

.487	.492
5.73	5.70
2.94	2.90
.488	.493
5.73	5.70
2.93	2.89

.495	.496
5.69	5.68
2.87	2.86
.496	.497
5.68	5.67
2.86	2.85

.497	.497
5.67	5.67
2.85	2.85
.498	.498
5.67	5.67
2.85	2.85

.498	.498
5.67	5.67
2.85	2.85
.499	.499
5.66	5.66
2.84	2.84

.498	.498
5.67	5.67
2.85	2.85
.499	.499
5.66	5.66
2.84	2.84

.323	.475
7.04	5.80
4.60	3.04
.323	.475
7.04	5.80
4.60	3.04

.488	.494
5.73	5.69
2.93	2.88
.488	.494
5.73	5.69
2.93	2.88

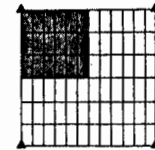
.497	.498
5.67	5.67
2.85	2.85
.497	.498
5.67	5.67
2.85	2.85

.499	.499
5.66	5.66
2.84	2.84
.499	.499
5.66	5.66
2.84	2.84

.500	.500
5.66	5.66
2.83	2.83
.500	.500
5.66	5.66
2.83	2.83

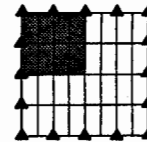
.500	.500
5.66	5.66
2.83	2.83
.500	.500
5.66	5.66
2.83	2.83

M	i = 12b
E 8	20 %
6x12	Lage



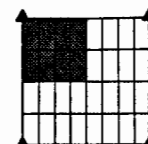
.237 8.22 7.18	.237 .308 8.22 7.21 4.79 4.79	.308 .295 7.21 7.36 4.79 4.97	.377 6.51 5.14	.295 .313 7.36 7.15 4.97 4.73	.313 .296 7.15 7.35 4.73 4.95
.387 6.43 5.03	.437 .489 6.05 5.72 3.39 2.92	.492 .501 5.70 5.65 2.90 2.82	.501 .502 5.65 5.65 2.82 2.81	.501 .494 5.65 5.69 2.82 2.88	.494 .501 5.69 5.65 2.88 2.82
.392 6.39 4.98	.437 .499 6.05 5.66 3.39 2.84	.501 .502 5.65 5.65 2.82 2.81	.502 .502 5.65 5.65 2.81 2.81	.502 .502 5.65 5.65 2.81 2.81	.502 .502 5.65 5.65 2.81 2.81
	.443 .500 6.01 5.66 3.33 2.83	.501 .502 5.65 5.65 2.82 2.81	.502 .502 5.65 5.65 2.81 2.81	.502 .502 5.65 5.65 2.81 2.81	.502 .502 5.65 5.65 2.81 2.81

M	$i = 2b$
E 8	20 %
4x8	Lage



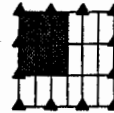
.490 18.0 17.6	.490 .277 18.0 7.60 17.6 5.23	.277 .280 7.60 7.56 5.23 5.18	.280 .281 7.56 7.55 5.18 5.17	.281 .281 7.55 7.55 5.17 5.17
	.324 .466 7.03 5.87 4.59 3.14	.478 .482 5.71 5.76 3.02 2.98	.485 .486 5.74 5.74 2.96 2.95	.487 .487 5.73 5.73 2.94 2.94
	.324 .475 7.03 5.80 4.59 3.04	.489 .493 5.72 5.70 2.92 2.89	.497 .497 5.67 5.67 2.85 2.85	.498 .498 5.67 5.67 2.85 2.85
	.326 .477 7.01 5.79 4.56 3.03	.490 .494 5.79 5.69 2.91 2.88	.497 .498 5.67 5.67 2.85 2.85	.499 .499 5.66 5.66 2.84 2.84

M	$i = 8b$
E 8	20 %
4x8	Lage



				.378 6.51 5.14			
.238 8.20 7.16	.238 .308 8.20 7.21 4.79		.308 .295 7.21 7.36 4.79 4.97		.295 .313 7.36 7.15 4.97 4.73		
	.437 .489 6.05 5.72 3.39 2.92		.489 .501 5.72 5.65 2.92 2.82		.501 .494 5.65 5.69 2.82 2.88		
	.389 6.41 5.01		.437 .499 6.05 5.66 3.39 2.84		.499 .502 5.66 5.65 2.84 2.81		
.443 .499 6.01 5.66 3.33 2.84			.499 .502 5.66 5.65 2.84 2.81		.502 .502 5.65 5.65 2.81 2.81		
.389 6.41 5.01						.502 .502 5.65 5.65 2.81 2.81	
						.502 .502 5.65 5.65 2.81 2.81	

M	$i = 2b$
E 8	20 %
3x6	Lage



						.075 14.6 14.0	
		.075 .281 14.6 7.55 12.0 5.17		.281 .284 7.55 7.51 5.17 5.12		.284 .284 7.51 7.51 5.12 5.12	
		.328 .466 6.98 5.86 4.54 3.12		.466 .482 5.86 5.76 3.12 2.98		.482 .486 5.76 5.74 2.98 2.95	
		.328 .476 6.98 5.80 4.54 3.03		.476 .494 5.80 5.69 3.03 2.88		.494 .497 5.69 5.67 2.88 2.85	
		.328 .476 6.98 5.80 4.54 3.03		.476 .494 5.80 5.69 3.03 2.88		.494 .497 5.69 5.67 2.88 2.85	

M	$i = 6b$
E 8	20 %
3x6	Lage



.237 8.22 7.18					.374 6.54 5.17
	.237 8.22	.308 7.21 4.79		.308 7.21 4.79	.293 7.39 5.00
		.437 6.05 3.39	.488 5.73 2.93	.491 5.71 2.91	.500 5.66 2.83
.385 6.45 5.06					

M	$i = 2b$
E 8	20 %
2x4	Lage



.122 11.5 10.7					
	.122 11.5	.289 7.44 5.05		.289 7.44 5.05	.289 7.44 5.05
		.333 6.93 4.48	.466 5.86 3.12	.481 5.77 2.99	.481 5.77 2.99

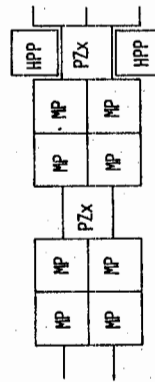
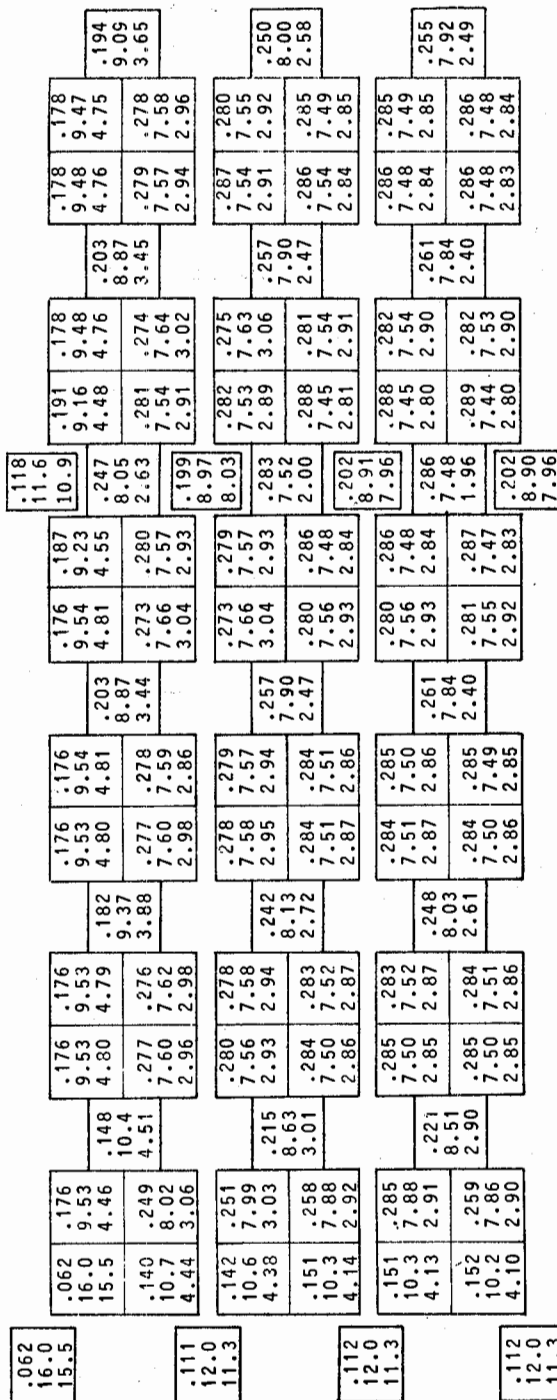
M	$i = 4b$
E 8	20 %
2x4	Lage



.211 8.71 7.74					.211 8.71 7.74
	.211 8.71	.289 7.44 5.05		.289 7.44 5.05	.211 8.71 6.39
		.211 8.71 6.39	.289 7.44 5.05	.289 7.44 5.05	.211 8.71 6.39
.211 8.71 7.74					.211 8.71 7.74

M	$i = 2b$
E 8	20 %
1x2	Lage



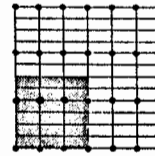


M	$i = 4b$
E 4	20 %
6x12	Höhe

MP Modellpunkt (Ecke)
 HPP Höhenpaßpunkt
 PZX x-Koordinate des Projektionszentrums

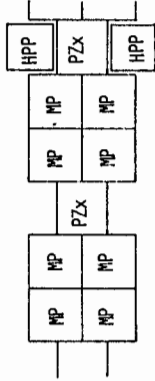
Die Werte für die y- und z-Koordinaten der Projektionszentren sind nahezu unabhängig von der Lage des Modells im Block:

y :	0.39	z :	0.34
	6.4		6.9
	2.2		0.5

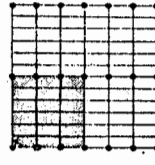


.044 19.0 18.6	.165 9.84 5.06	.165 9.84 5.06	.165 9.84 5.06	.165 9.84 5.06	.165 9.84 5.06	.165 9.84 5.06	.173 9.61 4.87	.083 13.9 13.3
.124 11.3 4.93	.239 8.18 3.22	.267 7.74 3.11	.157 9.57 4.05	.268 7.72 3.10	.268 7.72 3.11	.269 7.73 3.12	.199 8.97 3.54	.223 8.47 3.07
.081 14.0 13.4	.241 8.15 4.89	.269 7.71 3.08	.236 8.24 2.83	.271 7.69 3.07	.270 7.69 3.08	.268 7.73 3.11	.253 7.95 2.53	.145 10.5 9.71
.032 14.0 13.4	.135 10.8 4.58	.275 7.63 3.00	.241 8.15 2.74	.277 7.61 2.98	.276 7.61 2.99	.274 7.64 3.01	.271 7.68 3.06	.268 7.73 2.27
.032 14.0 13.2	.137 10.8 4.52	.276 7.62 2.99	.248 8.04 2.70	.277 7.60 2.97	.277 7.60 2.97	.275 7.63 3.00	.276 7.61 3.00	.147 10.4 9.64

M	i = 6b
E 4	20 %
6x12	Höhe



MP Modellpunkt (Ecke)
 HPP Höhenpaßpunkt
 PZX x-Koordinate des Projektionszentrums

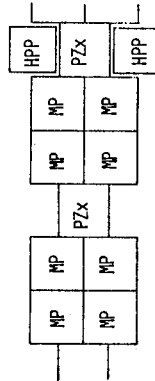


Die Werte für die y- und z-Koordinaten der Projektionszentren sind nahezu unabhängig von der Lage des Modells im Block:

y :	0.39	z :	0.34
	6.4		6.9
	2.2		0.5

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
.024 26.0 25.7	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.153 10.2 5.39	.179 9.45 3.96	.179 9.45 3.96	.179 9.45 3.96	.179 9.45 3.96
.045 18.8 18.4	.227 8.39 3.43	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.255 7.93 3.32	.257 7.90 3.29	.257 7.90 3.29	.257 7.90 3.29	.257 7.90 3.29	.257 7.90 3.29
.045 18.8 18.4	.236 8.24 3.28	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.261 7.82 3.21	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16
.045 18.8 18.4	.236 8.24 3.28	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.262 7.82 3.20	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16	.265 7.77 3.16

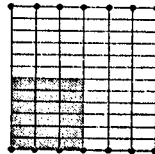
M	$i = 12b$
E 4	20 %
6x12	Höhe



MP Modeltopunkt (Ecke)
 HPP Höhenpaßpunkt
 PZx x-Koordinate des Projektionszentrums

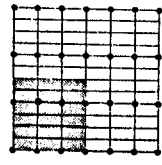
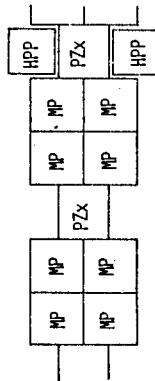
Die Werte für die y- und z-Koordinaten der Projektionszentren sind nahezu unabhängig von der Lage des Modells im Block:

y :	0.39	z :	0.34
	6.4		6.9
	2.2		0.5



$.090$ 13.4 12.7	$.308$ 7.21 4.33	$.200$ 8.94 3.97	$.308$ 7.21 4.40	$.227$ 8.40 3.54	$.308$ 7.21 4.41	$.243$ 8.11 3.26	$.308$ 7.21 4.41	$.339$ 6.87 4.02	$.281$ 7.54	$.309$ 7.19 4.38	$.243$ 8.11 3.26	$.309$ 7.19 4.38	$.309$ 7.19 4.38	$.235$ 8.23 3.39
$.152$ 10.3 9.45	$.308$ 7.21 4.40	$.266$ 2.66 2.66	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.483$ 4.83 5.75	$.265$ 2.65 2.66	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.265$ 2.65 2.66
$.156$ 10.1 9.31	$.461$ 5.89 2.68	$.268$ 7.73 2.78	$.474$ 5.81 2.64	$.287$ 7.47 2.57	$.474$ 5.81 2.64	$.299$ 7.31 2.38	$.474$ 5.81 2.64	$.484$ 5.75 2.55	$.692$ 7.99	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.472$ 4.72 5.82	$.293$ 7.39 2.47
$.156$ 10.1 9.30	$.465$ 5.86 2.64	$.278$ 7.59 2.63	$.478$ 5.79 2.60	$.296$ 7.35 2.42	$.478$ 5.79 2.60	$.306$ 7.23 2.27	$.478$ 5.79 2.60	$.489$ 5.72 2.51	$.787$ 7.87	$.477$ 4.77 5.79	$.477$ 4.77 5.79	$.477$ 4.77 5.79	$.477$ 4.77 5.79	$.301$ 7.29 2.35

M	$i = 4b$
E 8	20 %
6x12	Höhe

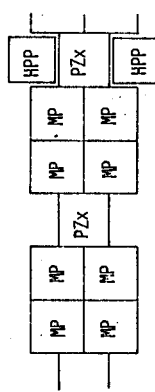


MP Modellpunkt (Ecke)
 HPP Höhenpaßpunkt
 PZx x-Koordinate des Projektionszentrums

y :	0.44	z :	0.40
	6.0		6.3
	1.6		0.3

Die Werte für die y- und z-Koordinaten der Projektionszentren sind nahezu unabhängig von der Lage des Modells im Block:

.038 20.6 20.2	.298		.298		.298		.298		.298		.298		.298	
	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
.069 15.2 14.7	.189		.222		.222		.222		.222		.222		.222	
	4.46	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
.070 15.1 14.6	8.99		8.50		8.49		8.49		8.49		8.49		8.49	
	4.01	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63
.070 15.1 14.6	.298		.298		.298		.298		.298		.298		.298	
	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
.069 15.2 14.7	.189		.222		.222		.222		.222		.222		.222	
	4.46	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
.070 15.1 14.6	8.99		8.50		8.49		8.49		8.49		8.49		8.49	
	4.01	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63
.070 15.1 14.6	.298		.298		.298		.298		.298		.298		.298	
	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
.069 15.2 14.7	.189		.222		.222		.222		.222		.222		.222	
	4.46	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
.070 15.1 14.6	8.99		8.50		8.49		8.49		8.49		8.49		8.49	
	4.01	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63

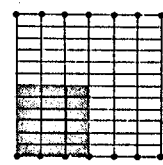


MP Modellpunkt (Ecke)
 HPP Höhenpaßpunkt
 PZx x-Koordinate des Projektionszentrums

M	i = 12b
E 8	20 %
6x12	Höhe

y :	0.44	z :	0.40
	6.0		6.3
	1.6		0.3

Die Werte für die y- und z-Koordinaten der Projektionszentren sind nahezu unabhängig von der Lage des Modells im Block:



.372	.331	.202
6.56	6.95	8.90
5.20	5.69	7.95

.098	.370	.098
12.8	6.58	
8.45	3.96	
.131	.511	
11.0	5.60	
8.94	3.09	
.259	.495	
7.86	5.69	
4.15	2.77	

.354
6.72
5.40

.263	.491
7.80	5.71
4.08	2.80
.132	.528
11.0	5.50
8.90	2.95

.360
6.67
5.33

.132	.528
11.0	5.50
8.00	2.94
.265	.496
7.77	5.68
4.05	2.76

.360
6.67
5.34

.374	.332	.201
6.54	6.94	8.91
5.18	5.67	7.97

.098	.370	.098
12.8	6.58	12.8
8.47	3.96	8.45

.352
6.74
5.43

.263	.491
7.79	5.71
4.07	2.81
.130	.528
11.1	5.51
9.00	2.95
.266	.494
7.75	5.69
4.03	2.77

.358
6.68
5.35

.132	.528
8.90	2.94
.265	.495
7.77	5.68
4.05	2.76

.358
6.68
5.35

.379	.335	.183
6.50	6.91	9.34
5.12	5.63	8.44

.091	.368	
13.2	6.60	
8.84	3.98	
.129	.510	
11.1	5.60	
9.03	3.09	
.259	.493	
7.86	5.70	
4.15	2.78	

.325
7.01
5.76

.264	.490
7.79	5.71
4.07	2.81
.130	.528
11.1	5.51
9.00	2.95
.266	.494
7.75	5.69
4.03	2.77

.330
6.96
5.70

.266	.494
7.76	5.69
4.04	2.77
.130	.528
11.0	5.50
9.00	2.95
.266	.494
7.76	5.69
4.04	2.77

.330
6.97
5.70

.204	.365	.204
8.87	6.62	8.85
5.12	4.01	5.11
.000	.517	.128
∞	5.57	11.2
∞	3.04	9.10
.260	.469	.280
7.84	5.84	7.56
4.13	2.99	3.83

.258	.481	.277
7.87	5.77	7.60
4.15	2.89	3.87
.000	.519	.132
∞	5.55	11.0
.259	.481	.277
7.86	5.76	7.60
4.15	2.88	3.87

.258	.481	.277
7.87	5.76	7.60
4.16	2.88	3.88
.000	.519	.132
∞	5.55	11.0
.258	.481	.277
7.87	5.76	7.60
4.15	2.88	3.88

.258	.481	.277
7.87	5.76	7.60
4.16	2.88	3.88
.000	.519	.132
∞	5.55	11.0
.258	.481	.277
7.87	5.76	7.60
4.15	2.88	3.88

.182	.163	.100
9.38	9.92	12.7
8.48	5.08	12.0

.178	.091	
9.49	13.2	
5.62	7.65	
.000	.129	
∞	11.1	
∞	8.85	
.291	.209	
7.41	8.74	
3.62	4.05	

.331	.352	.170
6.95	6.74	9.71
5.68	5.43	8.85

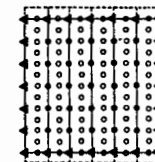
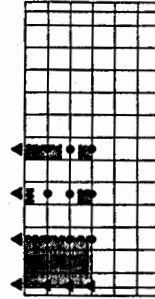
.295	.213	
7.37	8.66	
3.57	3.98	
.000	.130	
∞	11.1	
∞	8.82	
.296	.214	
7.35	8.65	
3.55	3.97	

.332	.347	.173
6.94	6.79	9.63
5.68	5.49	8.76

.296	.214	
7.35	8.65	
3.55	3.97	
.000	.130	
∞	11.1	
∞	8.82	
.296	.214	
7.35	8.65	
3.55	3.97	

.331	.345	.173
6.96	6.81	9.63
5.69	5.51	8.76

B	$i = 2b$
E 9	20 %
6x13	x



.246	.439
8.07	6.04
4.35	3.56
.408	.465
6.27	5.87
3.57	3.47
.288	.434
7.45	6.07
3.71	3.61

.246	.439	.246
8.07	6.04	8.07
4.36	3.56	4.36

.242	.434
8.13	6.07
4.42	3.61
.394	.484
6.37	5.88
3.70	3.48
.276	.432
7.62	6.09
3.89	3.63

.248	.279	.282
8.04	7.58	7.54
4.32	5.40	3.81
.258	.450	.419
7.88	5.96	6.18
5.42	3.60	3.46
.270	.289	.313
7.69	7.44	7.15
3.97	5.25	3.36

.134	.160
10.9	9.99
4.16	6.55
.258	.381
7.88	6.48
3.97	3.65
.134	.227
10.9	8.40
4.16	5.07

.319	.438
7.08	6.05
3.31	3.57
.428	.499
6.12	5.66
3.37	3.18

.312	.435
7.16	6.06
3.40	3.60
.411	.499
6.24	5.66
3.53	3.18
.311	.436
7.17	6.06
3.41	3.59

.278	.333	.321
7.59	6.93	7.06
3.86	4.67	3.28
.272	.497	.426
7.67	5.67	6.13
5.20	3.20	3.39
.279	.334	.321
7.57	6.93	7.06
3.84	4.66	3.28

.139	.242
10.7	8.14
4.02	4.81
.272	.409
7.67	6.25
3.75	3.36
.139	.243
10.7	8.12
4.02	4.79

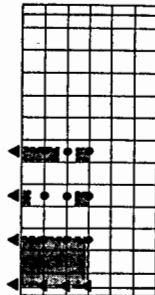
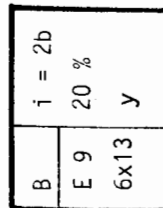
.428	.499
6.12	5.66
3.37	3.18
.319	.438
7.08	6.05
3.31	3.57

.428	.499
6.12	5.66
3.37	3.18
.319	.438
7.08	6.05
3.30	3.57

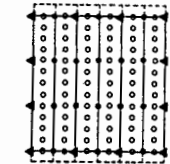
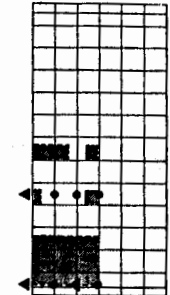
.312	.435
7.16	6.06
3.40	3.60
.411	.499
6.24	5.66
3.53	3.18
.312	.435
7.16	6.06
3.40	3.59

.279	.335	.321
7.58	6.92	7.06
3.85	4.65	3.29
.272	.498	.426
7.67	5.67	6.13
5.20	3.19	3.39
.279	.335	.321
7.58	6.92	7.06
3.85	4.65	3.29

.139	.243
10.7	8.12
4.02	4.79
.272	.409
7.67	6.25
3.75	3.36
.139	.243
10.7	8.12
4.02	4.79



.069	.061	.050	.189	.183	.109	.085	.311	.088	.088	.339
15.3	16.2	17.9	9.19	9.35	12.1	13.7	7.17	13.5	13.5	6.87
14.7	15.7	17.5	8.28	8.45	11.4	9.24	4.65	9.03	9.03	4.30
.112	.084	.084	.121	.336	.084	.084	.334	.084	.334	
12.0	13.8	13.8	11.5	6.90	13.8	13.8	6.92	13.8	6.92	
7.72	8.06	9.32	7.41	4.34	9.32	9.29	4.36	9.29	4.36	
.000	.126	.127	.000	.503	.127	.126	.506	.126	.506	
∞	11.3	11.2	∞	5.64	11.2	11.3	5.62	11.2	5.62	
∞	9.00	9.14	∞	3.15	9.14	9.18	3.12	9.18	3.12	
.249	.202	.250	.195	.433	.250	.252	.457	.252	.457	
8.01	8.90	7.99	9.06	6.08	7.99	7.97	5.80	7.97	5.80	
4.24	4.20	4.28	5.30	3.32	4.28	4.26	2.94	4.26	2.94	
.071			.178			.178				
15.0			9.49			9.49				
14.4			8.60			8.60				
.254	.206	.254	.203	.445	.254	.258	.485	.258	.485	
7.93	8.81	7.94	8.88	6.00	7.94	7.88	5.74	7.88	5.74	
4.16	4.12	4.22	5.13	3.21	4.22	4.15	2.85	4.15	2.85	
.000	.129	.132	.000	.515	.132	.129	.528	.129	.528	
∞	11.2	11.0	∞	5.58	11.0	11.2	5.51	11.2	5.51	
∞	8.87	8.91	∞	3.05	8.91	9.05	2.95	9.05	2.95	
.280	.210	.258	.206	.468	.258	.260	.493	.260	.493	
7.56	8.74	7.87	8.81	5.65	7.87	7.84	5.70	7.84	5.70	
3.78	4.05	4.16	5.07	3.00	4.16	4.12	2.79	4.12	2.79	
.170	.095		.198			.198				
9.71	9.28	13.0	8.99			8.99				
8.84	8.38	12.4	8.05			8.05				
.281	.210	.258	.208	.468	.258	.261	.498	.261	.498	
7.55	8.73	7.87	8.78	5.85	7.87	7.84	5.70	7.84	5.70	
3.77	4.05	4.16	5.04	3.00	4.16	4.12	2.78	4.12	2.78	
.000	.129	.132	.000	.515	.132	.129	.528	.129	.528	
∞	11.2	11.0	∞	5.58	11.0	11.2	5.50	11.0	5.50	
∞	8.87	8.91	∞	3.05	8.91	9.05	2.95	9.05	2.95	
.255	.207	.257	.205	.450	.257	.261	.491	.261	.491	
7.92	8.80	7.88	8.84	5.97	7.88	7.83	5.71	7.83	5.71	
4.15	4.11	4.17	5.10	3.17	4.17	4.12	2.80	4.12	2.80	
.075			.184			.184				
14.6			9.32			9.32				
14.1			8.42			8.42				



B	i = 4b
E 9	20 %
6x13	x

.205	.336
8.83	6.90
5.09	4.63
3.94	4.35
6.37	6.07
3.70	3.74
.271	.322
7.68	7.05
3.96	4.81

.222	.400	.222
8.49	6.32	8.50
4.76	3.93	4.77

.195	.328
9.06	6.98
5.30	4.73
.378	4.34
6.50	6.07
3.86	3.75
.253	.305
7.96	7.24
4.24	5.03

.162	.254	.199
9.95	7.93	8.97
6.10	5.79	5.21
.245	.428	.393
8.08	6.12	6.38
5.64	3.81	3.71
.196	.260	.262
9.04	7.84	7.82
5.28	5.69	4.10

.117	.162	.254	.199	
11.8	11.7	9.95	7.93	8.97
4.77	8.04	6.10	5.79	5.21
.245	.377	.245	.428	.393
8.08	6.51	8.08	6.12	6.38
4.18	3.69	5.64	3.81	3.71
.115	.202	.196	.260	.262
11.8	8.91	9.04	7.84	7.82
4.77	5.56	5.28	5.69	4.10

.307	.379
7.22	6.50
3.46	4.15
.423	.499
6.15	5.66
3.42	3.18

.296	.368
7.35	6.59
3.61	4.26
.406	.497
6.28	5.67
3.58	3.20
.296	.366
7.35	6.62
3.61	4.30

.202	.312	.295
8.89	7.16	7.37
5.14	4.93	3.63
.266	.489	.424
7.76	5.72	6.14
5.30	3.26	3.41
.237	.317	.302
8.22	7.11	7.28
4.50	4.87	3.52

.125	.214	.202	.312	.295
11.3	8.65	8.89	7.16	7.37
4.45	5.31	5.14	4.93	3.63
.266	.406	.266	.489	.424
7.76	6.28	7.76	5.72	6.14
3.85	3.39	5.30	3.26	3.41
.125	.233	.237	.317	.302
11.3	8.28	8.22	7.11	7.28
4.46	4.95	4.50	4.87	3.52

.424	.499
6.14	5.66
3.41	3.18

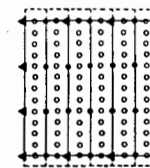
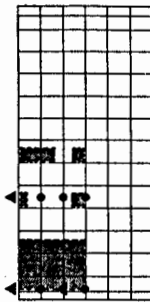
.421	.499
6.16	5.66
3.43	3.18
.312	.411
7.16	6.24
3.39	3.83

.299	.374
7.31	6.54
3.56	4.21
.407	.498
6.27	5.67
3.57	3.19
.296	.370
7.35	6.58
3.60	4.25

.237	.320	.306
8.22	7.07	7.23
4.50	4.83	3.47
.266	.490	.425
7.76	5.71	6.14
5.29	3.25	3.40
.203	.315	.295
8.88	7.13	7.37
5.13	4.90	3.63

.125	.234	.237	.320	.306
11.3	8.27	8.22	7.07	7.23
4.44	4.94	4.50	4.83	3.47
.266	.406	.266	.490	.425
7.76	6.28	7.76	5.71	6.14
3.84	3.39	5.29	3.25	3.40
.125	.214	.203	.315	.295
11.3	8.64	8.88	7.13	7.37
4.44	5.30	5.13	4.90	3.63

B	$i = 4b$
E 9	20 %
6x13	y



.034	.030	.033
21.6	23.3	21.9
21.2	22.9	21.5

.084	.080
13.8	14.1
9.24	8.29
.000	.124
∞	11.4
∞	9.09
.235	.201
8.25	8.93
4.48	4.22

.054
17.3
16.8

.239	.205
8.18	8.84
4.40	4.15
.000	.127
∞	11.2
∞	8.93
.242	.205
8.14	8.83
4.37	4.13

.055
16.9
16.4

.244	.206
8.10	8.81
4.33	4.12
.000	.128
∞	11.2
∞	8.90
.266	.208
7.76	8.77
3.98	4.08

.088	.104	.065
13.5	12.4	15.7
12.9	11.8	15.2

.086	.321	.080
13.7	7.06	14.1
9.17	4.53	9.53
.000	.494	.126
∞	5.69	11.3
∞	3.22	9.18
.169	.421	.245
9.72	6.16	8.08
5.89	3.44	4.37

.172	.434	.249
9.66	6.07	8.01
5.84	3.32	4.30
.000	.510	.132
∞	5.60	11.0
∞	3.09	8.92
.174	.439	.253
9.58	6.03	7.96
5.77	3.26	4.24

.181	.439	.253
9.40	6.04	7.95
5.61	3.26	4.24
.000	.512	.132
∞	5.59	11.0
∞	3.07	8.91
.186	.454	.254
9.28	5.94	7.93
5.50	3.13	4.22

.080	.322
14.1	7.05
9.55	4.51
.124	.503
11.4	5.64
9.27	3.15
.249	.465
8.02	5.87
4.31	3.03

.256	.476
7.90	5.80
4.19	2.93
.127	.527
11.2	5.51
9.10	2.95
.259	.482
7.87	5.76
4.15	2.88

.258	.482
7.87	5.76
4.16	2.88
.128	.528
11.2	5.51
9.07	2.95
.257	.485
7.88	5.74
4.17	2.85

.078	.317	.082
14.3	7.11	13.9
9.70	4.58	9.40

.082	.300
13.9	7.31
9.40	4.89
.128	.506
11.2	5.62
9.10	3.12
.247	.466
8.05	5.86
4.33	3.02

.252	.464
7.97	5.87
4.25	3.03
.132	.528
11.0	5.51
8.91	2.95

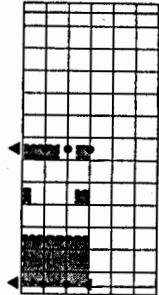
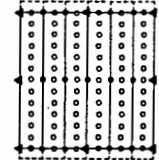
.109
12.1
11.4

.132	.528
11.0	5.50
8.91	2.95
.259	.481
5.77	7.87
4.15	2.89

.132	.528
11.0	5.50
8.91	2.95
.256	.473
5.81	7.91
4.19	2.96

.125
11.3
10.6

B	i = 6b
E 9	20 %
6x13	x



.184	.326	.198
9.32	7.00	9.20
5.54	4.76	6.53

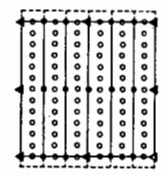
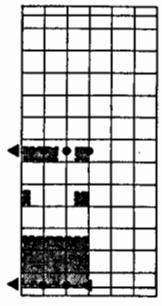
.107	.099	.131	.236	.179	.313
12.2	12.7	11.1	8.23	9.54	7.15
5.07	8.89	7.06	6.10	5.66	5.72
.238	.372	.238	.410	.387	3.72
8.20	6.56	8.20	6.24	6.43	6.56
4.29	3.74	5.76	3.97	3.77	3.93
.107	.194	.182	.247	.254	.249
12.2	9.09	9.37	8.05	7.94	8.02
5.07	5.73	5.58	5.92	4.23	4.30

.305	.395
7.24	6.37
3.49	3.99
.411	.499
6.24	5.67
3.53	3.19

.116	.208	.187	.302	.290	.363
11.7	8.77	9.24	7.28	7.42	7.39
4.73	5.43	5.46	5.07	3.65	6.64
.257	.402	.257	.478	.419	3.65
7.89	6.31	7.89	5.79	6.18	3.97
3.98	3.43	5.44	3.36	3.46	.495
.116	.209	.190	.302	.288	6.35
11.7	8.76	9.18	7.28	7.45	5.68
4.73	5.40	5.41	5.07	3.71	3.67

.415	.499
6.21	5.66
3.49	3.18
.304	.378
7.26	6.51
3.50	4.16

.119	.208	.191	.307	.289	.365
11.6	8.76	9.16	7.22	7.44	7.41
4.63	5.42	5.39	5.00	3.71	6.62
.261	.403	.261	.485	.420	3.67
7.82	6.30	7.82	5.74	6.17	4.30
3.91	3.42	5.36	3.30	3.44	.403
.119	.225	.216	.312	.298	.497
11.6	8.43	8.60	7.16	7.33	6.30
4.63	5.10	4.87	4.93	3.58	5.68



B	i = 6b
E 9	20 %
6x13	y

.006	.006	.015
50.9	53.4	32.9
50.8	53.3	32.6

.040	.073	.076
20.0	14.8	14.6
14.0	8.77	14.9
.000	.120	.480
∞	11.5	5.77
∞	9.25	3.34
.212	.197	.399
8.68	9.01	6.33
4.89	4.29	3.65

.028
24.1
23.8

.214	.202	.244
8.64	8.89	6.23
4.85	4.19	3.52
.000	.126	.504
∞	11.3	5.64
∞	8.99	3.14
.219	.203	.421
8.45	8.87	6.16
4.77	4.18	3.43

.028
23.8
23.4

.219	.204	.248
8.56	8.87	6.17
4.77	4.17	3.44
.000	.126	.505
∞	11.3	5.63
∞	8.98	3.14
.219	.203	.422
8.55	8.87	6.16
4.76	4.17	3.42

.028
23.8
23.4

.036	.292	.076
21.0	7.40	14.6
14.9	4.90	9.89
.000	.480	.124
∞	5.77	11.4
∞	3.34	9.26
.137	.399	.238
10.8	6.33	8.19
6.85	3.65	4.48

.249	.459
8.01	5.91
4.30	3.08

.138	.412	.244
10.8	6.23	8.10
6.80	3.52	4.39
.000	.504	.131
∞	5.64	11.0
∞	3.14	8.94
.146	.421	.248
10.5	6.16	8.03
6.54	3.43	4.32

.252	.465
7.96	5.86
4.25	3.03

.145	.420	.248
10.5	6.17	8.04
6.58	3.44	4.32
.000	.505	.131
∞	5.63	11.0
∞	3.14	8.93
.146	.422	.248
10.5	6.16	8.03
6.54	3.42	4.31

.252	.465
7.96	5.86
4.25	3.03

.075	.300	.075
14.6	7.31	14.6
9.94	4.80	9.95

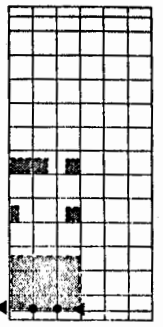
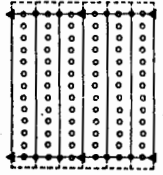
.075	.299
14.6	7.31
9.94	4.81
.124	.497
11.3	5.67
9.24	3.20
.244	.454
8.09	5.94
4.38	3.13

.251	.464
7.99	5.87
4.27	3.04
.132	.527
11.0	5.51
8.92	2.96

.132	.528
11.0	5.51
8.91	2.95
.255	.473
7.92	5.82
4.21	2.96

.132	.528
11.0	5.50
8.91	2.95
.255	.473
7.92	5.82
4.21	2.96

B	i = 12b
E 9	20 %
6x13	x



.167	.306
9.80	7.23
5.96	5.01
.378	.414
6.50	6.22
3.87	3.93
.261	.291
7.83	7.42
4.11	5.22

.166	.305	.166
9.82	7.24	9.81
5.98	5.02	5.97

.156	.294
10.1	7.37
6.24	5.17
.362	.408
6.65	6.26
4.04	3.99
.242	.270
8.14	7.70
4.42	5.54

.103	.207	.159
12.5	8.78	10.0
8.21	6.69	6.17
.225	.385	.376
8.43	6.45	6.52
6.00	4.23	3.89
.164	.222	.238
9.88	8.48	8.19
6.04	6.37	4.48

.098	.073
12.8	14.8
5.44	10.6
.225	.363
8.43	6.64
4.51	3.84
.098	.181
12.8	9.40
5.44	6.01

.298	.369
7.33	6.59
3.59	4.26
.409	.497
6.25	5.68
3.55	3.20

.286	.355
7.49	6.71
3.75	4.41
.389	.490
6.41	5.72
3.75	3.26
.285	.349
7.49	6.77
3.76	4.48

.171	.280	.279
9.66	7.56	7.57
5.84	5.38	3.84
.247	.462	.407
8.05	5.89	6.27
5.61	3.50	3.57
.173	.282	.279
9.62	7.53	7.58
5.81	5.35	3.85

.108	.195
12.2	9.07
5.04	5.71
.247	.392
8.05	6.39
4.14	3.53
.108	.198
12.2	9.00
5.04	5.64

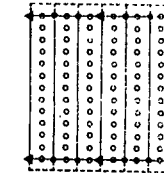
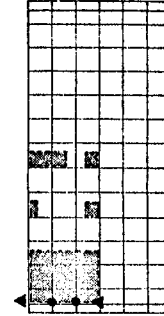
.411	.498
6.24	5.67
3.54	3.19
.300	.372
7.30	6.56
3.55	4.23

.411	.498
6.24	5.67
3.53	3.19
.300	.371
7.30	6.57
3.55	4.24

.288	.359
7.46	6.67
3.72	4.37
.391	.452
6.40	5.70
3.73	3.24
.288	.358
7.46	6.68
3.72	4.38

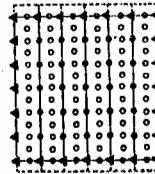
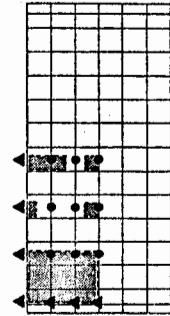
.173	.284	.283
9.61	7.50	7.52
5.80	5.32	3.79
.247	.464	.408
8.04	5.87	6.26
5.60	3.47	3.56
.173	.285	.282
9.61	7.49	7.53
5.79	5.31	3.80

.108	.198
12.2	9.00
5.02	5.64
.247	.393
8.04	6.38
4.13	3.52
.108	.198
12.2	9.00
5.02	5.64



B	i = 12b
E 9	20 %
6x13	y

.231	.202	.126	.443	.385	.227	.444	.386	.251	.443	.387	.253
8.32	8.89	11.3	6.01	6.45	8.40	6.00	6.42	7.58	6.01	6.43	7.95
7.30	7.94	10.5	4.48	5.06	7.38	4.48	5.03	6.91	4.49	5.04	6.86
.256	.126	.504	.126	.537	.278	.130	.539	.130	.130	.539	.130
7.91	11.3	7.59	11.3	5.46	7.59	11.1	5.45	11.1	8.85	3.11	
5.64	8.63	3.39	9.03	3.13	5.32	8.86	3.11	8.85	8.85	3.11	
.000	.147	.587	.147	.587	.147	.148	.588	.148	.148	.588	
∞	10.4	5.22	10.4	5.22	10.4	10.4	5.22	10.4	10.4	5.22	
∞	8.95	2.95	9.02	2.95	9.02	8.96	2.95	8.96	8.96	2.95	
5.15	4.70	.645	4.94	.657	.503	4.94	.657	4.94	4.94	.659	
5.57	5.84	4.99	5.69	4.93	5.64	5.69	4.93	5.69	5.69	4.93	
2.78	2.87	2.36	2.98	2.25	2.90	2.98	2.24	2.98	2.98	2.24	
.387	.424	.209	.387	.420	.209	.420	.387	.209	.420	.387	
6.43	6.14	8.74	6.43	6.14	8.74	6.17	8.74	6.17	6.14	8.74	
5.03	4.66	7.77	5.04	4.66	7.77	4.70	5.04	4.70	4.66	5.04	
.521	.472	.509	.496	.653	.509	.496	.653	.509	.497	.659	
5.54	5.82	5.62	5.68	4.93	5.62	5.68	4.93	5.68	5.68	4.93	
2.74	2.86	2.88	2.96	2.25	2.88	2.96	2.24	2.96	2.96	2.24	
.000	.148	.149	.148	.597	.149	.148	.597	.149	.149	.597	
∞	10.4	5.20	10.4	5.18	10.4	10.4	5.18	10.4	10.3	5.18	
∞	8.90	2.92	8.98	2.88	8.93	8.98	2.88	8.98	8.93	2.88	
.522	.472	.506	.498	.661	.506	.498	.661	.506	.498	.662	
5.53	5.82	5.62	5.67	4.92	5.62	5.67	4.92	5.67	5.67	4.92	
2.72	2.85	2.88	2.95	2.23	2.88	2.95	2.22	2.95	2.95	2.22	
.398	.432	.220	.399	.633	.220	.434	.399	.220	.434	.399	
6.34	6.09	8.53	6.33	6.09	8.53	6.07	8.53	6.07	6.04	8.53	
4.92	4.59	7.53	4.91	4.59	7.53	4.57	4.91	4.57	4.53	4.91	
.522	.472	.506	.498	.661	.506	.498	.661	.506	.498	.662	
5.54	5.82	5.62	5.67	4.92	5.62	5.67	4.92	5.67	5.67	4.92	
2.73	2.85	2.88	2.95	2.23	2.88	2.95	2.22	2.95	2.95	2.22	
.000	1.48	1.49	.148	.597	1.49	.149	.598	1.49	.149	.598	
∞	10.4	5.20	10.4	5.18	10.4	10.3	5.17	10.3	10.3	5.17	
∞	8.90	2.92	8.98	2.88	8.93	8.93	2.88	8.93	8.93	2.88	
.522	.472	.506	.498	.661	.506	.498	.662	.506	.498	.662	
5.54	5.82	5.62	5.67	4.92	5.62	5.67	4.92	5.67	5.67	4.92	
2.73	2.85	2.88	2.95	2.23	2.88	2.95	2.22	2.95	2.95	2.22	
.397	.431	.220	.399	.633	.220	.435	.399	.220	.435	.399	
6.35	6.09	8.52	6.33	6.09	8.52	6.07	8.52	6.07	6.04	8.52	
4.93	4.60	7.53	4.91	4.60	7.53	4.56	4.91	4.56	4.53	4.91	



B	$i = 2b$
E 18	20 %
6x13	X

.447	.578	.447	.478
5.98	5.26	5.98	5.26
3.39	2.96	3.32	2.96
.534	.561	.548	.561
5.48	5.34	5.48	5.34
3.16	3.14	3.16	3.14
.508	.585	.508	.585
5.61	5.23	5.61	5.23
2.86	2.91	2.86	2.91

.447	.578	.447
5.98	5.26	5.98
3.39	2.96	3.39

.443	.575
6.01	5.28
3.43	2.98
.526	.560
5.51	5.34
3.21	3.15
.501	.582
5.65	5.24
2.92	2.93

.406	.464	.480
6.28	5.87	5.77
3.78	3.85	3.10
.373	.551	.537
6.55	5.39	5.46
4.05	3.22	3.13
.431	.505	.515
6.09	5.63	5.57
3.54	3.51	2.80

.330	.398
6.96	6.34
3.87	4.00
.373	.522
6.55	5.54
4.05	3.17
.348	.475
6.78	5.80
3.66	3.29

.524	.590
5.53	5.21
2.73	2.87
.546	.583
5.42	5.24
3.06	2.99

.520	.587
5.55	5.22
2.77	2.89
.537	.582
5.46	5.24
3.13	2.99
.519	.588
5.55	5.22
2.77	2.88

.444	.529	.524
6.00	5.50	5.52
3.42	3.32	2.73
.384	.580	.544
6.46	5.25	5.42
4.48	3.01	3.07
.446	.529	.525
5.99	5.50	5.52
3.40	3.32	2.73

.350	.483
6.76	5.76
3.64	3.22
.384	.537
6.46	5.46
3.94	3.05
.350	.483
6.76	5.75
3.63	3.22

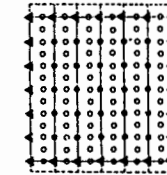
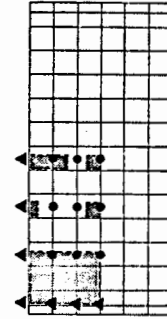
.546	.583
5.42	5.24
3.06	2.98
.524	.591
5.52	5.20
2.73	2.86

.546	.583
5.42	5.24
3.06	2.98
.524	.590
5.52	5.21
2.73	2.87

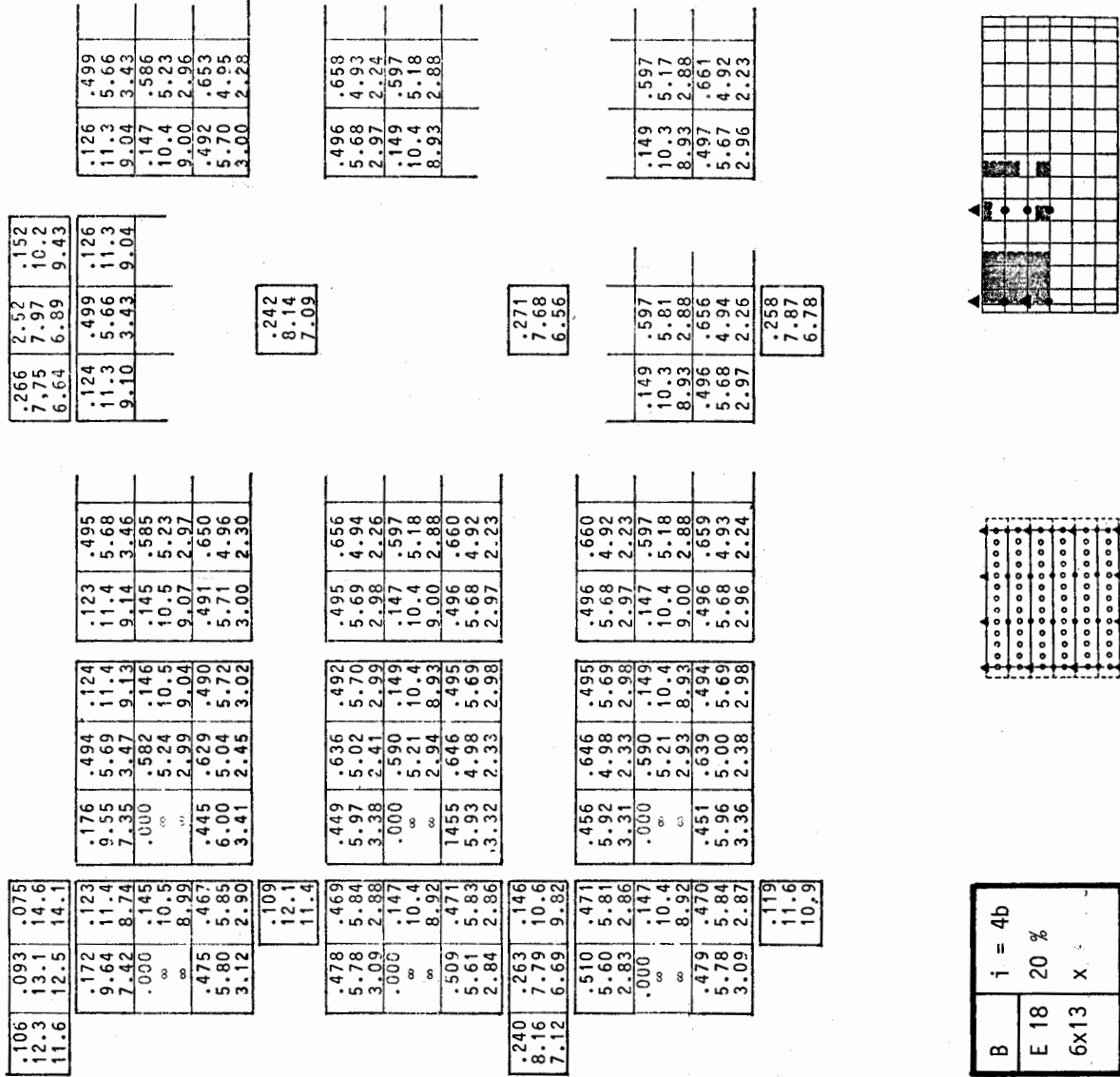
.520	.588
5.55	5.22
2.77	2.88
.537	.582
5.46	5.24
3.13	2.99
.520	.588
5.55	5.22
2.77	2.88

.445	.530	.525
5.99	5.50	5.52
3.41	3.31	2.73
.384	.580	.544
6.46	5.25	5.42
4.48	3.01	3.07
.445	.530	.525
5.99	5.50	5.52
3.41	3.31	2.73

.350	.483
6.76	5.75
3.63	3.22
.384	.537
6.46	5.46
3.94	3.05
.350	.483
6.76	5.75
3.63	3.22



B	$i = 2b$
E 18	20 %
6x13	y



.432	.499
6.09	5.66
3.52	3.55
.528	5.49
5.51	5.40
3.20	3.23
.502	.528
5.65	5.52
2.92	3.35

.439	.457	.438
6.04	5.36	6.04
3.47	3.11	3.47

.427	.495
6.12	5.69
3.58	3.59
.520	.548
5.54	5.40
3.26	3.24
.492	.517
5.70	5.57
3.00	3.42

.352	.455	.428
6.75	5.93	6.12
4.35	3.93	3.57
.369	.543	.527
6.59	5.43	5.51
4.64	3.28	3.20
.376	.492	.495
6.52	5.70	5.69
4.08	3.61	2.98

.313	.385
7.15	6.45
4.08	4.13
.369	.420
6.59	5.55
4.10	3.18
.330	.466
6.96	5.86
3.87	3.37

.519	.556
5.55	5.36
2.77	3.12
.543	.583
5.43	5.24
3.08	2.99

.514	.550
5.58	5.39
2.82	3.16
.535	.581
5.47	5.25
3.15	3.00
.514	.549
5.58	5.40
2.82	3.17

.383	.520	.512
6.47	5.55	5.59
4.02	3.39	2.83
.381	.576	.543
6.48	5.27	5.43
4.51	3.04	3.04
.417	.522	.515
5.20	5.54	5.57
3.68	3.38	2.80

.334	.472
6.92	5.82
3.82	3.31
.381	.535
6.48	5.47
3.97	3.06
.337	.480
6.98	5.77
3.78	3.24

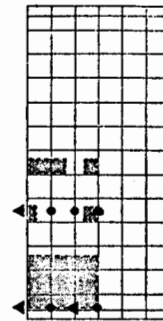
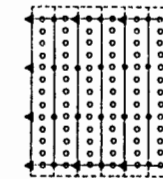
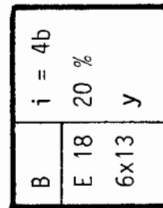
.544	.583
5.43	5.24
3.08	2.99
.520	.557
5.55	5.36
2.77	3.11

.543	.583
5.43	5.24
3.09	2.99
.522	.577
5.54	5.27
2.75	2.96

.515	.553
5.57	5.38
2.80	3.14
.535	.582
5.47	5.24
3.14	2.99
.514	.551
5.58	5.39
2.81	3.15

.417	.524	.517
6.19	5.53	5.56
3.67	3.36	2.79
.381	.577	.544
6.48	5.27	5.42
4.51	3.03	3.08
.384	.521	.513
6.46	5.54	5.59
4.00	3.31	2.83

.337	.480
6.89	5.77
3.78	3.24
.381	.555
6.48	5.47
3.97	3.06
.335	.472
6.91	5.82
3.81	3.31



.058	.050	.054
16.6	17.9	17.3
16.1	17.4	16.8

.134	.122
10.9	11.4
8.69	8.79
.000	.145
	10.5
.469	.467
5.84	5.86
3.18	2.90

.133	.489	.123	.490
11.0	5.72	11.4	5.71
8.74	3.51	9.18	3.50
.000	.579	.146	.584
	5.26	10.5	5.23
.435	.625	.488	.490
6.07	5.06	5.73	4.97
3.51	2.48	3.03	2.33

.437	.631	.481	.653
6.05	5.03	5.71	4.95
3.49	2.44	3.01	2.28
.000	.488	.149	.597
	5.22	10.4	5.18
.439	.635	.492	.656
6.04	5.02	5.70	4.94
3.47	2.41	3.00	2.26

.474	.470
5.81	5.84
3.13	2.88
.000	.147
	10.4
.498	.470
5.67	5.83
2.93	2.87

.140	.166	.105
10.7	9.83	12.3
9.89	8.98	11.7

.124	.487
11.4	5.73
9.13	3.53
.147	.586
10.4	5.23
9.02	2.96
.490	.648
5.72	4.97
3.02	2.32

.122	.489	.124
11.5	5.72	11.4
9.22	3.51	9.13

.122	.490
11.4	5.71
9.20	3.50
.145	.584
10.5	5.23
9.10	2.98
.490	.648
5.71	4.97
3.01	2.33

.494	.653
5.69	4.95
2.98	2.28
.147	.597
10.4	5.18
9.02	2.89
.495	.656
5.68	4.94
2.97	2.26

.495	.656
5.68	4.94
2.97	2.26
.147	.597
10.4	5.18
9.00	2.88
.495	.657
5.69	4.93
2.97	2.25

.441	.635	.493
6.02	5.02	5.70
3.45	2.41	2.99
.000	.589	.149
	5.21	10.4
.444	.641	.493
6.01	5.00	5.70
3.42	2.37	2.99

.156	.648
10.1	4.97
9.31	2.32
.493	.648
5.70	4.97
2.99	2.32
.149	.597
10.4	5.18
8.93	2.88

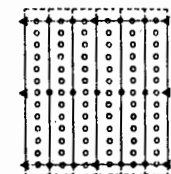
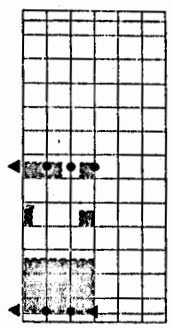
.169	.648
9.72	4.97
8.86	2.32

.149	.597
10.4	5.18
8.93	2.88
.496	.656
5.68	4.94
2.97	2.36

.149	.597
10.4	5.18
8.93	2.88
.494	.653
5.69	4.95
2.98	2.28
.147	.597
10.4	5.18
9.02	2.89
.495	.656
5.68	4.94
2.97	2.26

.094	.648
13.1	4.97
12.4	2.32

.140	.166	.105
10.7	9.83	12.3
9.89	8.98	11.7



B	i = 6b
E 18	20 %
6x13	x

.433	.538
6.08	5.45
3.52	3.25
.525	.555
5.52	5.37
3.22	3.19
.502	.451
5.65	5.44
2.91	3.23

.424	.495	.426
6.14	5.68	6.13
3.61	3.59	3.59

.420	.488
6.17	5.72
3.64	3.64
.518	.544
5.56	5.42
3.27	3.27
.490	5.10
5.71	5.60
3.01	3.46

.328	.447	.421
6.98	5.98	6.17
4.64	3.99	3.64
.366	.536	.525
6.61	5.46	5.52
4.67	3.33	3.22
.370	.487	.492
6.58	5.73	5.70
4.16	3.65	3.00

.306	.378
7.23	6.50
4.17	4.20
.366	.518
6.61	5.56
4.12	3.20
.327	.462
7.00	5.88
3.91	3.39

.519	.567
5.55	5.31
2.78	3.04
.539	.582
5.45	5.24
3.12	2.99

.512	.548
5.59	5.41
2.83	3.18
.531	.581
5.49	5.25
3.10	3.00
.512	.544
5.59	5.43
2.83	3.20

.374	.515	.511
6.54	5.57	5.60
4.10	3.43	2.84
.377	.571	.541
6.51	5.29	5.44
4.55	3.07	3.10
.376	.515	.510
6.52	5.57	5.60
4.09	3.43	2.85

.331	.469
6.96	5.84
3.87	3.33
.377	.533
6.51	5.48
4.01	3.08
.331	.470
6.95	5.83
3.86	3.33

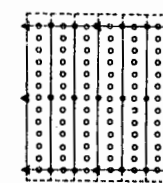
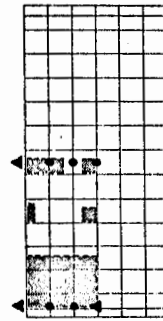
.539	.583
5.45	5.24
3.11	2.99
.520	.569
5.55	5.30
2.77	3.02

.540	.583
5.44	5.24
3.11	2.99
.518	.556
5.56	5.37
3.12	2.78

.512	.549
5.59	5.40
2.83	3.17
.534	.581
5.48	5.25
3.16	3.00
.514	.550
5.58	5.40
2.82	3.16

.367	.518	.511
6.52	5.56	5.60
4.08	3.41	2.84
.379	4.75	.543
6.50	5.28	5.43
4.53	3.05	3.09
.401	.520	.514
6.31	5.55	5.58
3.82	3.39	2.81

.333	.470
6.94	5.84
3.84	3.33
.379	.534
6.50	5.47
3.99	3.07
.333	.477
6.93	5.79
3.84	3.27



B	$i = 6b$
E 18	20 %
6x13	y

.012	.011	.025
36.6	38.4	25.2
36.3	38.2	24.9

.067	.120	.121
15.4	11.6	11.5
12.9	8.91	9.27
.000	.143	.145
∞	10.6	10.5
∞	9.07	9.08
.458	.465	.486
5.91	5.86	5.10
3.28	2.92	3.05

.047
18.4
17.9

.459	.468	.488
5.90	5.85	5.07
3.26	2.89	2.50
.000	.146	.149
∞	10.5	10.4
∞	8.96	8.94
.461	.468	.490
5.89	5.85	6.14
3.24	2.89	3.01

.051
17.8
17.3

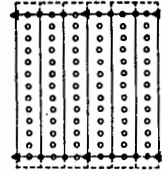
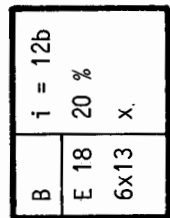
.461	.468	.490
5.89	5.84	5.05
3.24	2.89	2.47
.000	.146	.149
∞	10.5	10.4
∞	8.96	8.94
.461	.468	.491
5.89	5.84	6.14
3.24	2.89	3.01

.051
17.8
17.3

.061	.478	.121	.120	.483
16.2	5.78	11.5	11.6	5.67
13.6	3.60	9.27	9.32	3.56
.000	.573	.145	.143	.581
∞	5.28	10.5	10.6	5.25
∞	3.05	9.08	9.15	3.00
.419	.616	.486	.487	.639
6.18	5.10	5.74	5.73	5.01
3.65	2.55	3.05	3.04	2.39

.421	.622	.488	.491	.645
6.17	5.07	5.72	5.71	4.98
3.64	2.50	3.03	3.01	2.34
.000	.585	.149	.146	.596
∞	5.23	10.4	10.5	5.18
∞	2.97	8.94	9.04	2.89
.425	.627	.490	.493	.649
6.14	5.05	5.71	5.70	4.97
3.60	2.47	3.01	2.99	2.31

.424	.626	.490	.493	.649
6.14	5.05	5.71	5.70	4.97
3.60	2.47	3.01	2.99	2.31
.000	.586	.149	.146	.596
∞	5.23	10.4	10.5	5.18
∞	2.96	8.94	9.04	2.89
.425	.627	.491	.493	.649
6.14	5.05	5.71	5.70	4.96
3.60	3.47	3.01	2.99	2.31



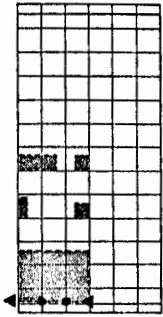
.121	.482	.121
11.5	5.76	11.5
9.27	3.57	9.28

.121	.482
11.5	5.76
9.27	3.57
.145	.582
10.5	5.24
9.07	2.99
.489	.643
5.72	4.99
3.03	2.35

.492	.648
5.70	4.97
3.00	2.32
.149	.597
10.4	5.18
8.94	2.89

.149	.597
10.4	5.18
8.93	2.88
.494	.653
5.69	4.95
2.98	2.29

.149	.497
10.4	5.18
8.93	2.88
.494	.653
5.69	4.95
2.98	2.29



.417	.486
6.20	5.74
3.68	3.66
.522	.540
5.54	5.44
3.25	3.30
.497	.512
5.67	5.59
2.96	3.45

.416	.486	.416
6.20	5.74	6.20
3.68	3.66	3.68

.411	.480
6.24	5.77
3.73	3.71
.514	.537
5.58	5.46
3.31	3.32
.487	.502
5.73	5.65
3.04	3.54

.413	.435
6.23	6.06
3.72	4.11
.521	.525
5.54	5.52
3.26	3.41
.486	.477
5.84	5.79
3.05	3.74

.368	.305
6.59	7.25
4.31	4.94
.514	.361
5.58	6.65
3.23	4.73
.457	.360
5.92	6.67
3.44	4.26

.515	.551
5.57	5.39
2.80	3.15
.538	.582
5.46	5.25
3.13	2.99

.509	.544
5.60	5.42
2.85	3.20
.528	.578
5.51	5.26
3.20	3.02
.509	.541
5.61	5.44
2.85	3.23

.506	.506
5.62	5.62
2.88	2.88
.537	.564
5.46	5.33
3.13	3.12
.506	.507
5.62	5.62
2.88	3.49

.464	.364
5.87	6.63
3.38	4.22
.529	.373
5.50	6.55
3.11	4.60
.465	.365
5.86	6.62
3.37	4.21

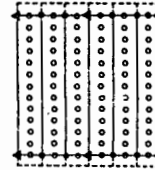
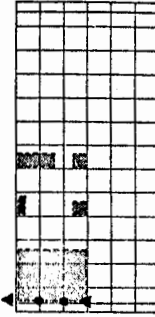
.538	.583
5.45	5.24
3.12	2.99
.517	.552
5.56	5.38
2.79	3.14

.539	.582
5.45	5.24
3.12	2.99
.517	.552
5.56	5.38
2.79	3.15

.510	.546
5.60	5.41
2.84	3.19
.539	.579
5.50	5.26
3.19	3.01
.510	.546
5.60	5.42
2.84	3.19

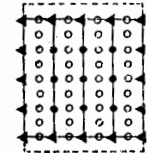
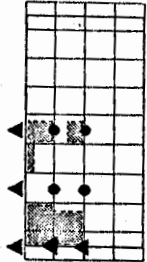
.508	.508
5.61	5.61
2.86	2.86
.537	.565
5.46	5.32
3.13	3.11
.508	.508
5.61	5.61
2.87	3.48

.465	.365
5.86	6.62
3.37	4.20
.530	.373
5.50	6.55
3.11	4.60
.465	.365
5.86	6.62
3.37	4.20



B	i = 12b
E 18	20 %
6x13	y

.214	.184	.110	.435	.361	.202	.436	.362	.222
8.65	9.33	12.1	6.06	6.66	8.90	6.06	6.65	8.48
7.66	8.43	11.4	4.56	5.32	7.95	4.55	5.31	7.48
.231	.000	.116	.270	.000	.484	.000	.494	
3.31	∞	11.8	7.69	∞	5.75	∞	5.69	
6.44	∞	7.80	5.40	∞	3.69	∞	3.61	
.000	.000	.136	.000	.000	.000	.000	.539	
∞	∞	10.8	∞	∞	∞	∞	5.45	
∞	∞	8.42	∞	∞	∞	∞	3.39	
.000	.000	.145	.000	.000	.000	.000	.578	
∞	∞	10.5	∞	∞	∞	∞	5.26	
∞	∞	8.53	∞	∞	∞	∞	3.16	
.000	.000	.141	.000	.000	.000	.000	.570	
∞	∞	10.7	∞	∞	∞	∞	5.30	
∞	∞	8.26	∞	∞	∞	∞	3.16	
.448	.472	.356	.377	.522	.634	.534	.416	
5.98	5.82	6.70	6.51	5.54	5.02	5.47	6.20	
3.70	3.30	2.99	4.04	3.32	2.58	3.22	3.65	
.351	.403	.187	.350				.377	
6.66	6.30	9.26	6.76				6.51	
5.33	4.87	8.35	5.45				5.14	
.455	.474	.357	.379	.523	.636			
5.93	5.81	6.69	6.50	5.54	5.02			
3.63	3.20	2.98	4.02	3.31	2.58			
.000	.000	.142	.000	.000	.568			
∞	∞	10.6	∞	∞	5.31			
∞	∞	8.22	∞	∞	3.20			
.000	.000	.147	.000	.000	.587			
∞	∞	10.4	∞	∞	5.22			
∞	∞	8.44	∞	∞	3.09			
.000	.000	.142	.000	.000	.568			
∞	∞	10.6	∞	∞	5.31			
∞	∞	8.22	∞	∞	3.20			
.456	.475	.359	.380	.524	.637			
5.92	5.81	6.68	6.49	5.53	5.02			
3.62	3.28	2.96	4.01	3.30	2.58			
.368	.406	.192	.357					
6.60	6.28	9.14	6.69					
5.25	4.84	8.22	5.37					



B	$i = 2b$
E25	20 %
4x9	x

.413	.390	.484	.391	.414
6.23	6.41	5.75	6.40	6.21
3.68	4.41	3.70	4.40	3.66

.376	.391	.563
6.52	6.40	5.33
4.05	4.40	3.08
.545	.452	.593
5.42	5.95	5.19
3.14	4.10	3.08
.555	.444	.590
5.37	6.00	5.21
3.14	4.17	3.06
.542	.448	.591
5.43	5.98	5.20
3.16	4.15	3.09
.452	.439	.561
5.95	6.04	5.34
3.32	3.93	3.09

.413	.390	.484	.391	.414
6.23	6.41	5.75	6.40	6.21
3.68	4.41	3.70	4.40	3.66

.359	.374	.432	.389	.409
6.68	6.54	6.09	6.41	6.26
4.24	4.57	4.15	4.42	3.72
.391	.447	.578	.452	.539
6.40	5.99	5.26	5.95	5.45
4.43	4.15	3.19	4.11	3.19
.400	.433	.581	.444	.556
6.33	6.08	5.25	6.00	5.36
4.46	4.27	3.13	4.17	3.13
.396	.444	.560	.447	.547
6.36	6.01	5.34	5.98	5.41
4.43	4.18	3.31	4.15	3.12
.396	.420	.462	.439	.458
6.35	6.17	5.88	6.04	5.91
3.85	4.10	3.87	3.93	3.27

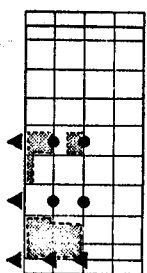
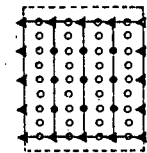
.275	.374	.301
7.63	6.54	7.29
5.62	4.04	3.81
.391	.447	.534
6.40	5.99	5.47
4.58	3.92	2.76
.400	.433	.548
6.33	6.08	5.41
4.43	4.02	2.81
.396	.443	.532
6.36	6.01	5.48
4.53	3.95	2.78
.278	.418	.383
7.59	6.18	6.46
5.53	3.59	2.82

.410	.421	.463
6.25	6.16	5.88
3.71	4.10	3.87
.396	.447	.594
6.35	5.98	5.19
4.42	4.15	3.07
.403	.438	.596
6.30	6.04	5.18
4.43	4.22	3.02
.396	.447	.594
6.35	5.98	5.19
4.42	4.15	3.07
.410	.421	.464
6.25	6.16	5.88
3.71	4.10	3.87

.287	.419	.388
7.47	6.18	6.42
5.43	3.59	2.76
.396	.447	.544
6.35	5.98	5.42
4.53	3.92	2.68
.403	.438	.560
6.30	6.04	5.35
4.40	3.98	2.71
.396	.447	.544
6.35	5.98	5.42
4.53	3.92	2.68
.287	.419	.389
7.46	6.18	6.41
5.43	3.59	2.75

.560	.449	.600
5.35	5.97	5.16
3.10	4.12	2.99
.553	.453	.598
5.38	5.95	5.17
3.08	4.20	3.04
.468	.441	.562
5.85	6.02	5.33
3.18	3.91	3.08

B	$i = 2b$
E25	20 %
4x9	y



.022	.019	.027
27.1	28.6	24.5
26.8	28.4	24.2

.077	.000	.107	.066	.000	.430	.000	.109
14.5	∞	12.2	15.6	∞	6.10	∞	12.1
12.5	∞	8.17	13.0	∞	4.17	∞	9.80
.000	.000	.131	.000	.000	.524	.000	.132
∞	∞	11.0	∞	∞	5.52	∞	11.0
∞	∞	8.63	∞	∞	3.50	∞	9.40
.000	.000	.141	.000	.000	.565	.000	.143
∞	∞	10.6	∞	∞	5.32	∞	10.6
∞	∞	8.66	∞	∞	3.25	∞	9.19
.000	.000	.138	.000	.000	.551	.000	.141
∞	∞	10.8	∞	∞	5.39	∞	10.7
∞	∞	8.37	∞	∞	3.30	∞	9.07
.382	.457	.351	.269	.518	.613	.519	.385
6.48	5.92	6.75	7.71	5.56	5.11	5.55	6.45
4.34	3.44	3.06	5.41	3.35	2.72	3.34	3.96

.046
18.8
18.3

.382	.459	.352
6.47	6.74	7.63
4.33	3.42	3.04
.000	.000	.140
∞	∞	10.7
∞	∞	8.29
.000	.000	.146
∞	∞	10.5
∞	∞	8.49
.000	.000	.140
∞	∞	10.7
∞	∞	8.28
.385	.460	.353
6.44	5.90	6.73
4.29	3.41	3.03

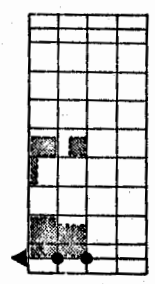
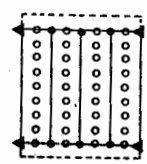
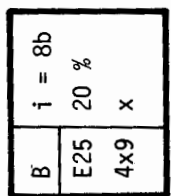
.275	.519	.621
7.63	5.55	5.08
3.33	3.26	2.66
.000	.000	.560
∞	∞	5.35
∞	∞	3.31
.000	.000	.583
∞	∞	5.24
∞	∞	3.11
.000	.000	.560
∞	∞	5.35
∞	∞	3.31
.277	.520	.622
7.60	5.55	5.07
5.30	3.33	2.66

.048
18.3
17.9

.109	.000	.433	.000	.108
12.1	∞	6.08	∞	12.2
9.80	∞	4.14	∞	9.83

.108	.000	.433
12.2	∞	6.08
9.83	∞	4.14
.132	.000	.529
11.0	∞	5.50
9.40	∞	3.47
.143	.000	.572
10.6	∞	5.29
9.18	∞	3.19
.141	.000	.563
10.7	∞	5.33
9.06	∞	3.21
.392	.531	.633
6.39	5.49	5.03
3.89	3.24	2.58

.149	.000	.594
10.4	∞	5.19
8.96	∞	3.03
.143	.000	.573
10.6	∞	5.28
8.96	∞	3.14
.399	.534	.639
6.33	5.47	5.00
3.82	3.22	2.54



.324	.383	.456	.384	.325
3.02	6.46	5.93	6.46	7.02
4.65	4.48	3.94	4.47	4.65

.325	.383	.457
7.02	6.46	5.92
4.64	4.47	3.93

530	.452	574
5.49	5.95	5.28
3.25	4.11	3.21

.546	.440	.572
5.42	6.03	5.29
3.21	4.21	3.20

.534	.443	.557
5.47	6.01	5.36
3.22	4.18	3.33

.432	.433	.472
6.09	6.08	5.82
3.50	3.99	3.79

.248	.369	.255	.358	.317
8.03	6.58	7.87	6.43	7.10
6.06	4.10	4.41	4.49	4.74

.378	.446	.519	.451	.528
6.51	5.99	5.55	5.38	5.50
4.72	3.92	2.88	3.36	4.11

.388	.432	.539	.439	.545
6.42	6.08	5.45	5.36	6.04
4.35	4.03	2.87	3.30	4.21

.382	.441	.523	.443	.531
6.47	6.02	5.53	5.47	6.01
4.68	3.97	2.85	3.49	4.19

.250	.416	.361	.428	.416
8.00	6.20	6.65	6.12	6.07
6.03	3.62	3.06	4.19	3.98

.262	.418	.366	.417	.430
7.82	6.19	6.61	6.19	6.10
5.83	3.80	3.01	4.14	4.17

.384	.446	.534	.446	.538
6.45	5.99	5.47	5.99	5.45
4.65	3.92	2.76	4.18	3.48

.393	.438	.551	.438	.565
6.38	6.04	5.39	6.04	5.32
4.50	3.98	2.78	4.52	3.24

.385	.446	.535	.446	.539
6.45	5.99	5.47	6.44	5.99
4.65	3.92	2.76	4.55	3.48

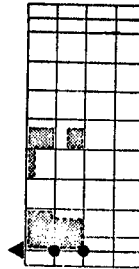
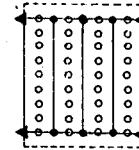
.262	.418	.367	.418	.435
7.82	6.19	6.60	6.95	6.06
5.82	3.80	2.99	5.56	4.13

.562	.448	.599
5.34	5.98	5.17
3.09	4.14	3.00

.549	.452	.589
5.40	5.95	5.21
3.11	4.11	3.10

.451	.438	.505
5.95	6.04	5.63
3.32	3.94	3.52

B	i = 8b
E25	20 %
4x9	y



.278	.278	.153
7.58	7.58	10.2
6.44	6.44	9.40

.163	.000
9.91	-
2.93	-
354	191
6.72	9.15
2.57	2.22

.358	.232
6.69	8.30
2.77	3.64
.492	.422
5.70	6.16
2.96	3.59
.387	.310
6.43	7.18
2.42	2.43

.333	.311
6.46	7.17
2.47	2.42
.567	500
5.31	5.66
2.35	2.90
.386	.314
6.44	7.13
2.44	2.37

.393	.317
6.38	7.11
2.36	2.33
.500	.477
5.66	5.79
2.90	3.09

.468	.506	.271
5.85	5.62	7.68
4.27	3.95	6.56

.177	.357	.177
9.50	6.69	9.50
3.03	2.63	3.03
306	588	307
7.23	5.31	7.22
2.22	1.91	2.20

.298	.552	.302
7.32	5.38	7.28
3.58	2.28	3.53
.492	.675	.499
5.70	4.87	5.66
3.10	1.82	3.04
.384	.594	.384
6.45	5.19	6.46
2.52	1.93	2.53

.446
5.99
4.46

.170	.355	.170
9.70	6.71	9.70
3.21	2.66	3.21
287	544	302
7.47	5.44	7.28
2.51	2.16	2.28

.321	.467	.342
7.06	5.85	6.84
3.28	3.01	3.03
.400	.653	.494
6.33	4.95	5.69
3.94	1.99	3.08
.378	.580	.392
6.50	5.25	6.39
2.59	2.05	2.43

.351	.571	.375
6.75	5.29	6.53
2.91	2.12	2.62
.507	.670	.556
5.62	4.89	5.37
2.97	1.86	2.58
.363	.580	.382
6.64	5.25	6.47
2.77	2.05	2.55

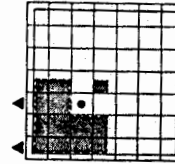
.382	.584	.396
6.47	5.23	6.36
2.54	2.01	2.39
.456	.667	.520
5.93	4.90	5.55
3.41	1.89	2.87

.185	.374
9.31	6.54
2.86	2.42
.312	.565
7.16	5.32
2.12	1.94

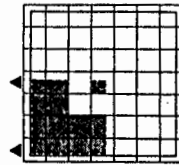
.351	.507
6.75	5.62
2.91	2.66
.505	.680
5.63	4.85
2.99	1.78
.398	.591
6.34	5.21
2.36	1.95

.402	.596
6.31	5.18
2.32	1.91
.531	.690
5.49	4.82
2.78	1.70

B	$i = 2b$
D 9	60 %
4x9	x



.194	.194	.093	.385	.409	.165
9.08	9.08	13.1	6.44	6.26	9.84
8.15	8.15	12.5	5.05	4.81	8.98
.151	.151	.000	.177	.347	
10.3	10.3	∞	9.51	6.79	
3.24	3.24		3.04	2.75	
.341	.341	.190	.306	.565	
6.85	6.85	9.17	7.23	5.32	
2.73	2.73	2.24	2.22	1.94	
.337	.337	.226	.294	.536	
6.89	6.89	8.41	7.38	5.46	
3.02	3.02	3.75	3.64	2.42	
.485	.485	.415	.495	.676	
5.75	5.75	6.21	5.69	4.87	
3.02	3.02	3.66	3.07	1.82	
.371	.371	.297	.382	.590	
6.56	6.56	7.34	6.47	5.21	
2.61	2.61	2.62	2.55	1.96	
.372	.372	.300	.391	.590	
6.55	6.55	7.30	6.39	5.21	
2.60	2.60	2.57	2.44	1.96	
.491	.491	.470	.536	.690	
5.71	5.71	5.83	5.47	4.82	
2.97	2.97	3.15	2.74	1.70	
.384	.384	.314	.282		
6.45	6.45	7.14	7.53		
2.46	2.46	2.38	6.38		
.377	.377	.311			
6.51	6.51	7.17			
2.54	2.54	2.42			
.554	.554	.490			
5.37	5.37	5.71			
2.45	2.45	2.98			
.165	.338	.165	.177	.356	.177
9.85	6.88	9.85	9.50	6.71	9.50
3.33	2.86	3.33	3.03	2.65	3.03
.280	.539	.296	.303	.563	.310
7.56	5.45	7.36	7.27	5.33	7.19
2.62	2.14	2.37	2.26	1.96	2.16
.287	.467	.293	.294	.508	.328
7.47	5.85	7.39	7.37	5.61	6.99
3.74	3.01	3.65	3.63	2.66	3.19
.399	.648	.481	.485	.674	.498
6.33	4.97	5.76	5.74	4.87	5.67
3.94	2.03	3.19	3.16	1.83	3.05
.353	.572	.371	.384	.588	.382
6.73	5.29	6.57	6.46	5.22	6.48
2.89	2.11	2.68	2.53	1.98	2.55
.347	.567	.368	.347	.576	.377
6.79	5.31	6.59	6.69	5.27	6.51
2.96	2.16	2.71	2.84	2.08	2.60
.448	.660	.515	.501	.666	.528
5.98	4.92	5.57	5.65	4.90	5.50
3.48	1.94	2.91	3.02	1.89	2.80
.360	.580	.384			
6.67	5.25	6.45			
2.80	2.05	2.52			



B	i = 3b
D 9	60 %
4x9	x

.073	.073	.025
14.9	14.9	25.1
14.3	14.3	24.8

.135	.000	
10.9	∞	
3.67	3.11	3.45
.325	.189	.292
7.02	9.20	7.40
2.94	2.27	2.43

.313	.219	.282
7.14	8.55	7.54
3.32	3.88	3.81
.472	.411	.478
5.82	6.24	5.78
3.13	3.69	3.21
.361	.293	.361
6.66	7.39	6.66
2.73	2.69	2.79

.361	.296	.361
6.66	7.35	6.66
2.74	2.64	2.79
.477	.456	.501
5.79	5.92	5.65
5.09	3.27	3.03
.365	.300	.370
6.62	7.30	6.58
2.69	2.58	2.69

.365	.300	.370
6.62	7.30	6.57
2.69	2.58	2.69
.478	.457	.502
5.78	5.92	5.65
3.08	3.27	3.01

.160	.319	.160
10.0	7.08	10.0
3.45	3.11	3.45
.269	.538	.292
7.71	5.45	7.40
2.79	2.18	2.43

.246	.463	.282
8.07	5.88	7.54
4.35	3.04	3.81
.381	.636	.478
6.48	5.01	5.78
4.12	2.12	3.21
.336	.564	.361
6.90	5.33	6.66
3.03	2.18	2.79

.329	.560	.361
6.97	5.34	6.66
3.18	2.21	2.79
.437	.651	.501
6.05	4.96	5.65
3.58	2.01	3.03
.338	.570	.370
6.88	5.30	6.58
3.07	2.13	2.69

.337	.569	.370
6.89	5.30	6.57
3.08	2.13	2.69
.438	.652	.502
6.05	4.95	5.65
3.57	2.00	3.01

.174	.339	.174
9.60	6.87	9.60
3.12	2.85	3.12
.300	.561	.302
7.30	5.34	7.58
2.31	1.97	2.28

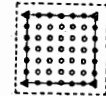
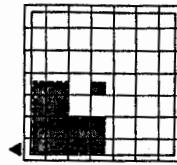
.280	.501	.286
7.55	5.65	7.48
3.83	2.71	3.75
.482	.668	.489
5.76	4.90	5.72
3.18	1.88	3.12
.376	.581	.374
6.52	5.25	6.54
2.62	2.03	2.64

.174	.341
9.58	6.85
3.10	2.83
.303	.562
7.27	5.34
2.26	1.97

.286	.502
7.48	5.65
3.75	2.71
.491	.671
5.71	4.88
3.11	1.85
.378	.582
6.50	5.24
2.59	2.02

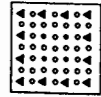
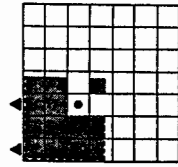
.387	.589
6.43	5.21
2.49	1.97
.515	.688
5.58	4.82
2.91	1.72

B	i = 6b
D 9	60 %
4x9	x



.336	.336	.181	.547	.548	.300	.087	.369
6.90	6.90	9.40	5.41	5.40	7.31	13.6	6.58
5.62	5.62	8.50	3.61	3.63	6.11	9.13	3.96
.000	.087	.087	.087	.346	.092	.087	.369
∞	∞	9.11	13.6	6.80	13.2	13.6	6.58
.199	.377	.350	9.10	4.22	8.78	9.13	3.96
8.98	6.51	6.76	.387	.605	.388	.423	.609
6.89	4.31	4.47	6.43	5.14	6.42	6.15	5.13
.172	.473	.301	4.06	2.36	4.06	3.71	2.33
9.64	5.81	7.29	.366	.580	.363	.369	.583
5.82	2.95	3.54	2.74	2.04	2.77	2.70	2.02
.199	.435	.301	.345	.576	.346	.379	.558
8.98	6.07	7.30	6.81	5.27	6.80	6.49	5.36
5.22	3.31	3.55	2.98	2.08	2.97	2.58	2.23
.337	.515	.475	.516	.681	.516	.521	.686
6.89	5.57	5.80	5.57	4.85	5.57	5.54	4.83
4.62	3.05	3.24	2.90	1.77	2.90	2.86	1.73
.237	.505	.350	.391	.596	.391	.402	.595
8.22	5.63	6.76	6.40	5.18	6.40	6.31	5.19
4.51	2.68	2.92	2.44	1.91	2.44	2.32	1.92
.223	.481	.347	.382	.587	.385	.403	.597
8.46	5.77	6.79	6.48	5.22	6.44	6.30	5.18
4.74	2.89	2.96	2.55	1.98	2.51	2.31	1.90
.377	.584	.515	.553	.681	.558	.533	.690
6.52	5.24	5.57	5.38	4.85	5.36	5.48	4.81
4.18	2.52	2.91	2.60	1.78	2.56	2.76	1.70
.235	.486	.350	.385	.590	.388		
8.25	5.74	6.76	6.45	5.21	6.42		
4.54	2.84	2.92	2.52	1.96	2.48		
.240	.509	.358	.397	.592	.399		
8.16	5.61	6.69	6.34	5.20	6.33		
4.44	2.65	2.83	2.37	1.94	2.35		
.373	.524	.493	.505	.677	.524		
6.55	5.52	5.70	5.63	4.86	5.52		
4.22	2.98	3.09	2.99	1.80	2.83		

.463
5.88
4.31



B	$i = 2b$
D9 m.R.	60 %
4x9	x

.463	.471	.194
5.88	5.83	9.09
4.31	4.24	8.16

.088	.343
13.5	6.83
9.06	4.25
.388	.602
6.42	5.16
4.05	2.38
.365	.579
6.62	5.26
2.75	2.06

.344	.569
6.82	5.30
3.00	2.13
.514	.682
5.58	4.84
2.92	1.76
.388	.593
6.42	5.20
2.48	1.93

.084	.350	.086
13.8	6.76	13.7
9.26	4.17	9.17
.387	.601	.412
6.43	5.16	6.23
4.07	2.38	3.82
.364	.578	.365
6.63	5.26	6.62
2.76	2.06	2.85

.345	.553	.364
6.81	5.38	6.63
2.98	2.27	2.75
.511	.682	.514
5.59	4.84	5.58
2.94	1.77	2.92
.390	.593	.389
6.40	5.20	6.41
2.45	1.94	2.46

.000	.338	.088
∞	6.88	13.5
	4.32	9.06
.362	.588	.380
6.65	5.22	6.49
4.33	2.48	4.14
.357	.568	.347
6.70	5.31	6.79
2.84	2.15	2.96

.348	.546	.337
6.78	5.42	6.89
2.95	2.33	3.08
.486	.667	.501
5.74	4.90	5.65
3.14	1.88	3.02
.378	.585	.380
6.51	5.23	6.49
2.60	2.00	2.57

.379	.584	.379
6.50	5.23	6.49
2.58	2.01	2.58
.499	.674	.520
5.66	4.87	5.55
3.03	1.83	2.87
.384	.589	.390
6.46	5.21	6.41
2.53	1.97	2.46

.381	.586	.383
6.48	5.22	6.47
2.56	1.99	2.54
.544	.680	.532
5.42	4.85	5.48
2.67	1.78	2.77

.243	.243	.115
8.12	8.12	11.8
7.07	7.07	11.1

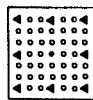
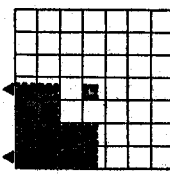
.000	.084
∞	13.8
	9.26
.197	.359
9.01	6.67
6.92	4.51
.168	.471
9.75	5.83
5.92	2.98

.197	.417	.297
9.01	6.20	7.34
5.25	3.48	3.60
.334	.513	.470
6.93	5.58	5.84
4.66	3.07	3.29
.226	.483	.337
8.42	5.76	6.89
4.70	2.87	3.08

.219	.481	.340
8.55	5.77	6.86
4.82	2.89	3.05
.366	.520	.486
6.61	5.55	5.73
4.29	3.01	3.14
.239	.499	.355
8.19	5.66	6.71
4.47	2.73	2.86

.229	.482	.348
8.35	5.76	6.78
4.64	2.87	2.95
.376	.575	.509
6.52	5.28	5.61
4.18	2.58	2.96

B	$i = 3b$
D9 m.R.	60 %
4x9	x

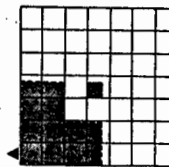
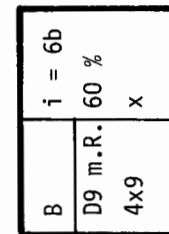


.094	.094	.035
13.1	13.1	21.4
12.4	12.4	21.0
.000	.082	14.0
∞	∞	9.45
.193	.335	.349
9.10	6.91	6.77
7.02	4.79	4.48
.164	.467	.298
9.89	5.85	7.33
6.04	3.01	3.58
.193	.394	.289
9.10	6.38	7.44
5.34	3.71	3.71
.327	.506	.465
7.00	5.62	5.86
4.75	3.13	3.33
.217	.478	.335
8.58	5.79	6.91
4.85	2.91	3.11
.213	.475	.336
8.66	5.80	6.90
4.93	2.94	3.09
.357	.514	.475
6.70	5.58	5.80
4.39	3.06	3.24
.220	.479	.340
8.52	5.78	6.86
4.79	2.90	3.05
.219	.479	.340
8.54	5.78	6.86
4.81	2.91	3.05
.358	.515	.476
6.68	5.58	5.80
4.37	3.05	3.24

.000	.326	.084
∞	7.00	13.8
.344	4.46	9.29
6.82	5.24	6.49
4.54	2.53	4.15
.352	.566	.345
6.74	5.32	6.81
2.90	2.17	2.99
.327	.542	.328
7.00	5.43	6.98
3.21	2.37	3.19
.481	.662	.498
5.77	4.92	5.67
3.19	1.92	3.05
.370	.580	.374
6.58	5.25	6.54
2.69	2.05	2.65
.368	.579	.373
6.59	5.26	6.55
2.71	2.05	2.65
.492	.671	.508
5.70	4.88	5.61
3.10	1.86	2.97
.372	.582	.377
6.56	5.24	6.52
2.67	2.03	2.61
.371	.582	.377
6.56	5.24	6.52
2.67	2.03	2.61
.492	.672	.508
5.70	4.88	5.61
3.10	1.84	2.96

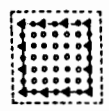
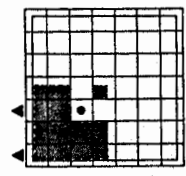
.082	.336	.085
14.0	6.90	13.7
9.45	4.34	9.25
.385	.594	.385
6.45	5.19	6.44
4.09	2.44	4.08
.362	.574	.360
6.65	5.28	6.67
2.79	2.09	2.81
.339	.548	.339
6.87	5.40	6.87
3.06	2.31	3.06
.508	.678	.508
5.61	4.86	5.61
2.96	1.80	2.96
.385	.588	.384
6.45	5.22	6.46
2.51	1.98	2.53
.084	.339	.084
13.8	6.87	13.8
9.29	4.31	9.29
.386	.597	.386
6.44	5.18	6.44
4.07	2.42	4.07
.363	.575	.363
6.64	5.27	6.64
2.77	2.08	2.77
.340	.549	.340
6.86	5.40	6.86
3.04	2.31	3.04
.510	.680	.510
5.60	4.85	5.60
2.95	1.78	2.95
.386	.588	.386
6.44	5.22	6.44
2.51	1.98	2.51

.388	.590
6.42	5.21
2.47	1.96
.518	.689
5.56	4.82
2.88	1.71



.349	.349	.200	.544	.563	.338	.433	.599
6.77	6.77	8.95	5.43	5.33	6.88	6.08	5.17
5.46	5.46	8.00	3.66	3.52	5.59	2.76	2.05
.428	.326		.414	.600	.414	.557	.726
6.12	7.01		6.22	5.16	6.22	5.36	4.69
2.72	2.93		2.96	2.03	2.96	2.03	1.64
.565	.498		.554	.727	.555	.526	.669
5.32	5.67		5.37	4.69	5.37	2.71	2.17
2.29	2.02		2.05	1.64	2.04	.654	.783
.530	.439		.471	.700	.474	4.95	4.52
5.49	6.04		5.83	4.78	5.81	2.42	1.60
2.66	3.16		3.18	1.95	3.15	.602	.738
.635	.612		.647	.780	.651	5.15	4.66
5.02	5.11		4.97	4.53	4.96	2.10	1.66
2.49	2.65		2.47	1.62	2.44		
.600	.555		.593	.739	.593		
5.17	5.37		5.19	4.65	5.19		
2.10	2.13		2.17	1.66	2.18		
.581	.556						
5.25	5.36						
2.25	2.12						
.694	.648						
4.80	4.97						
2.07	2.20						
.583	.558						
5.24	5.35						
2.23	2.10						
.604	.559						
5.15	5.35						
2.06	2.09						
.640	.640						
2.46	2.45						
.413	.587	.425	.414	.600	.414	.433	.599
6.22	5.22	6.14	6.22	5.16	6.22	6.08	5.17
2.96	2.14	2.84	2.96	2.03	2.96	2.76	2.05
.533	.714	.552	.554	.727	.555	.557	.726
5.48	4.73	5.39	5.37	4.69	5.37	5.36	4.69
2.24	1.74	2.07	2.05	1.64	2.04	2.03	1.64
.499	.649	.518	.471	.700	.474	.526	.669
5.66	4.96	5.56	5.83	4.78	5.81	2.71	2.17
2.94	2.31	2.78	3.18	1.95	3.15	.654	.783
.591	.767	.648	.647	.780	.651	4.95	4.52
5.20	4.57	4.97	4.97	4.53	4.96	2.42	1.60
2.86	1.71	2.46	2.47	1.62	2.44	.602	.738
.583	.731	.596	.593	.739	.593	5.15	4.66
5.24	4.68	5.18	5.19	4.65	5.19	2.10	1.66
2.26	1.71	2.15	2.17	1.66	2.18		
.565	.728	.588					
5.32	4.69	5.22					
2.40	1.74	2.21					
.657	.776	.684					
4.93	4.54	4.84					
2.40	1.65	2.21					
.571	.732	.592					
5.29	4.67	5.20					
2.35	1.71	2.18					
.587	.734	.601					
5.22	4.67	5.16					
2.22	1.70	2.11					
.620	.775	.662					
5.08	4.54	4.92					
2.66	1.65	2.37					

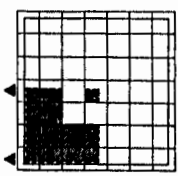
.523
5.53
3.82



B	$i = 2b$
D	18
	60 %
	4x9
	x

.606	.741
5.14	4.65
2.07	1.64
.667	.789
4.90	4.50
2.33	1.55

263 7.80 6.70	.263 7.80 6.70	135 10.9 10.1	.414 6.22 2.86 .561 5.34 2.32	.326 7.01 2.93 4.98 5.67 2.02	.406 5.24 3.03 7.14 4.73 1.74	.582 6.27 2.18 3.02 5.50 2.09	.407 6.27 3.02 5.50 2.09	.471 5.83 4.24	.482 5.76 4.14	.226 8.41 7.39
	.414 6.22 2.96 .553 5.38 2.06	.592 5.20 2.11 7.26 4.70 1.65	.470 6.69 4.89 2.17 7.80 4.53 1.62	.509 5.61 2.86 6.51 4.96 2.44	.471 5.83 3.18 6.50 4.96 2.45	.693 4.81 2.00 7.81 4.53 1.61				
	.511 5.60 2.82 .633 5.03 2.50 .577 5.27 2.28	.437 6.05 3.17 6.10 5.12 2.60 5.50 5.39 2.17	.650 4.96 2.31 7.65 4.99 1.73 7.29 4.69 1.73	.470 5.84 3.19 6.43 4.99 2.50 5.86 5.22 2.23	.564 4.69 2.41 7.72 4.55 1.68 7.32 4.67 1.71	.586 5.23 2.24 6.59 4.93 2.39 5.93 5.19 2.18				
	.577 5.26 2.28 .636 5.02 2.48 .597 5.18 2.12	.552 5.38 2.16 6.37 5.01 2.48 5.58 5.36 2.10	.727 4.69 1.75 7.72 4.55 1.68 7.32 4.67 1.71	.586 5.23 2.24 6.59 4.93 2.39 5.93 5.19 2.18	.564 4.69 2.41 7.72 4.55 1.68 7.32 4.67 1.71	.586 5.23 2.24 6.59 4.93 2.39 5.93 5.19 2.18				
	.580 5.25 2.26 .686 4.83 2.13	.557 5.36 2.11 6.45 4.98 2.42	.731 4.68 1.72 7.75 4.54 1.65	.590 5.21 2.20 6.65 4.90 2.34	.569 4.68 2.37 7.75 4.54 1.65	.590 5.21 2.20 6.65 4.90 2.34				
								.598 5.17 2.14 .669 4.89 2.32	.739 4.65 1.66 7.89 4.50 1.55	
										.362 6.65 5.31



B	i = 3b
D 18	60 %
4x9	x

.119	.119	.042
11.6	11.6	19.4
10.9	10.9	19.0

392	326	
6.39	7.01	
3.08	2.93	
.556	.497	
5.37	5.67	
2.37	2.03	

.483	.435	
5.75	6.07	
3.05	3.20	
6.29	6.08	
5.04	5.13	
2.53	2.68	
.574	.549	
5.28	5.40	
2.31	2.18	

.574	.550	
5.28	5.39	
2.31	2.17	
.631	.631	
5.03	5.04	
2.51	2.52	
.576	.552	
5.27	5.38	
2.29	2.15	

.576	.553	
5.27	5.38	
2.29	2.15	
.632	.631	
5.03	5.04	
2.51	2.52	

396	575	406
6.35	5.27	6.28
3.13	2.24	3.04
.528	.714	.549
5.51	4.74	5.40
2.28	1.74	2.10

.445	.648	.456
6.00	4.97	5.86
3.41	2.32	3.22
.584	.761	.642
5.23	4.59	4.99
2.91	1.75	2.51
.561	.726	.583
5.34	4.69	5.24
2.43	1.75	2.26

.558	.724	.583
5.36	4.70	5.24
2.46	1.77	2.26
.612	.769	.653
5.11	4.56	4.95
2.71	1.70	2.43
.562	.729	.587
5.34	4.69	5.22
2.42	1.73	2.22

.562	.729	.588
5.34	4.69	5.22
2.43	1.73	2.22
.613	.769	.654
5.11	4.56	4.95
2.71	1.69	2.42

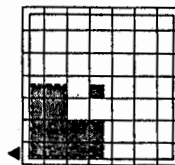
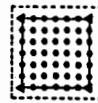
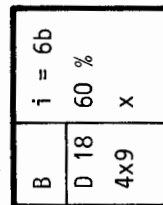
.413	.586	.413
6.23	5.23	6.23
2.97	2.16	2.97
.553	.725	.553
5.38	4.70	5.38
2.06	1.65	2.06

.465	.667	.468
5.86	4.90	5.85
3.23	2.19	3.20
.644	.777	.647
4.99	4.54	4.97
2.49	1.64	2.47
.590	.735	.590
5.21	4.67	5.21
2.20	1.69	2.20

.413	.587
6.23	5.22
2.96	2.15
.554	.725
5.38	4.70
2.05	1.65

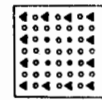
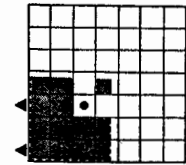
.468	.667
5.85	4.90
3.21	2.11
.648	.779
4.97	4.53
2.46	1.63
.592	.735
5.20	4.66
2.19	1.68

.596	.738
5.18	4.65
2.15	1.66
.660	.788
4.92	4.51
2.38	1.56



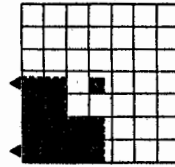
.399	.399	.228	.602	.595	.364	.126	.512
6.34	6.34	8.37	5.16	5.19	6.63	11.3	5.59
4.91	4.91	7.35	3.25	3.30	5.28	9.03	3.32
	.000	.126	.126	.504	.128	.582	.719
	∞	11.3	11.3	5.63	11.2	5.34	4.72
	∞	9.05	9.05	3.39	8.94	3.07	2.05
.348	.542	.501	.519	.725	.519	.586	.734
6.78	5.44	5.65	5.55	4.70	5.55	5.23	4.67
5.01	3.29	3.54	3.40	2.00	3.40	2.23	1.69
.417	.429	.553	.571	.729	.577	.497	.694
6.19	5.04	5.38	5.29	4.69	5.27	5.44	4.80
3.67	2.45	2.50	2.35	1.73	2.31	2.60	1.99
.348	.571	.473	.523	.689	.532	.662	.786
6.78	5.29	5.81	5.53	4.82	5.48	4.92	4.51
4.40	2.87	3.16	2.74	2.02	2.67	2.37	1.57
5.00	.649	.639	.638	.777	.656	.605	.740
5.66	4.97	5.00	5.01	4.54	4.94	5.18	4.65
3.55	2.53	2.52	2.53	1.64	2.41	2.14	1.64
.448	.660	.575	.595	.737	.601	.597	.741
5.98	4.92	5.27	5.19	4.66	5.10	5.14	4.65
3.39	2.23	2.32	2.16	1.67	2.11	2.08	1.65
.443	.633	.575	.582	.736	.594	.606	.742
6.01	5.03	5.28	5.24	4.66	5.19	5.14	4.64
3.43	2.43	2.32	2.27	1.68	2.17	2.07	1.64
5.19	.703	.655	.680	.783	.685	.668	.789
5.55	4.77	4.94	4.85	4.52	4.83	4.89	4.50
3.40	2.16	2.41	2.24	1.60	2.21	2.32	1.55
.448	.636	.576	.584	.738	.595		
5.98	5.02	5.27	5.24	4.66	5.19		
3.38	2.41	2.31	2.25	1.67	2.16		
.450	.664	.579	.598	.738	.603		
5.97	4.91	5.26	5.17	4.66	5.15		
3.37	2.21	2.29	2.14	1.66	2.10		
5.18	.645	.648	.645	.782	.664		
5.56	4.95	4.97	4.98	4.52	4.91		
3.40	2.49	2.46	2.48	1.60	2.35		

537
5.46
3.72



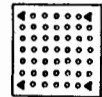
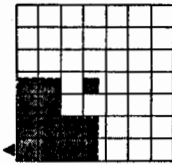
B	$i = 2b$
D18 m.R.	60 %
4x9	x

.308	.308	.159	.000	.125	.499	.126	.531	.527	.254
7.21	7.21	10.0	∞	11.3	5.66	11.3	5.49	5.51	7.94
6.00	6.00	9.21	∞	9.02	3.43	9.02	3.76	3.79	6.86
	.000	.125	.000	.499	.126	.126	.126	.504	
	∞	11.3	∞	5.66	11.3	11.3	11.3	5.64	
	∞	9.02	∞	3.43	9.02	9.02	9.02	3.39	
.347	.523	.500	.513	.709	.516	.519	.520	.723	
5.79	5.53	5.65	5.58	4.75	5.57	5.55	5.55	4.71	
6.02	3.43	3.54	3.44	2.11	3.42	3.40	3.39	2.02	
4.16	.628	.552	.570	.728	.576	.564	584	.733	
6.20	5.05	5.38	5.30	4.69	5.27	5.24	5.23	4.67	
3.68	2.46	2.30	2.28	1.74	2.23	2.25	2.25	1.70	
.347	.553	.472	.507	.689	.492	.496	.496	.710	
6.79	5.38	5.82	5.62	4.82	5.70	5.68	5.68	4.75	
4.41	3.01	3.17	2.87	2.03	3.00	2.96	2.96	1.88	
.498	.648	.637	.636	.776	.653	.658	.659	.785	
5.67	4.97	5.01	5.01	4.54	4.95	4.93	4.93	4.52	
3.56	2.53	2.54	2.54	1.65	2.43	2.39	2.39	1.58	
.444	.634	.571	.580	.736	.591	.596	.596	.740	
6.00	5.02	5.29	5.25	4.66	5.20	5.18	5.18	4.65	
3.42	2.42	2.35	2.28	1.68	2.19	2.15	2.15	1.65	
.441	.633	.572	.581	.735	.591	.596	.599	.740	
6.02	5.03	5.29	5.25	4.66	5.20	5.18	5.17	4.65	
3.44	2.43	2.34	2.27	1.69	2.19	2.15	2.13	1.65	
5.15	.652	.645	.643	.780	.662	.662	.670	.789	
5.57	4.95	4.98	4.99	4.53	4.92	4.92	4.89	4.50	
3.43	2.50	2.48	2.50	1.62	2.37	2.37	2.31	1.55	
.449	.656	.578	.590	.737	.596	.596	600	.789	
5.97	4.94	5.26	5.21	4.66	5.18	5.18	4.89	4.50	
3.37	2.26	2.30	2.20	1.67	2.15	2.15	2.31	1.55	
.446	.634	.576	.582	.737	.593	.593	599	.740	
5.99	5.02	5.27	5.24	4.66	5.19	5.19	5.17	4.65	
3.40	2.42	2.32	2.26	1.68	2.17	2.17	2.13	1.65	
5.19	.697	.654	.676	.783	.667	.667	.670	.789	
5.55	4.79	4.95	4.87	4.52	4.90	4.90	4.89	4.50	
3.40	2.20	2.42	2.27	1.60	2.33	2.33	2.31	1.55	
									.382
									6.47
									5.09



B	$i = 3b$
D18 m.R.	60 %
4x9	x

.144	.144	.055	.000	.124	.496	.125	.124	.501	.125	.125	.502
10.5	10.5	17.1	∞	11.4	5.68	11.3	11.4	5.65	11.3	11.3	5.65
9.74	9.74	16.7	∞	9.12	3.46	9.07	9.12	3.42	9.05	9.07	3.40
.346	.494	.500	.492	.707	.515	.518	.518	.713	.518	.519	.714
6.80	5.69	5.66	5.70	4.76	5.57	5.56	5.56	4.74	5.56	5.55	4.73
5.03	3.66	3.55	3.61	2.13	3.43	3.40	3.40	2.09	3.40	3.40	2.08
.415	.627	.552	.569	.721	.575	.583	.583	.731	.582	.584	.732
6.21	5.05	5.39	5.30	4.69	5.28	5.24	5.24	4.68	5.24	5.24	4.68
3.70	2.47	2.51	2.37	1.75	2.32	2.26	2.26	1.71	2.26	2.25	1.71
.346	.524	.470	.485	.687	.489	.494	.494	.691	.495	.495	.691
6.80	5.52	5.84	5.74	4.82	5.72	5.69	5.69	4.81	5.68	5.68	4.81
4.42	3.23	3.19	3.06	2.04	3.02	2.98	2.98	2.01	2.97	2.97	2.01
.496	.646	.635	.634	.774	.651	.657	.657	.782	.657	.658	.784
5.68	4.98	5.02	5.02	4.55	4.96	4.94	4.94	4.52	4.94	4.93	4.52
3.58	2.55	2.55	2.56	1.66	2.44	2.40	2.40	1.60	2.40	2.39	1.59
.441	.433	.570	.578	.734	.589	.595	.595	.738	.594	.595	.738
6.02	5.03	5.30	5.26	4.67	5.21	5.19	5.19	4.66	5.19	5.18	4.66
3.44	2.43	2.36	2.30	1.69	2.31	2.15	2.15	1.67	2.17	2.16	1.66
.439	.631	.571	.577	.734	.589	.597	.597	.739	.591	.597	.739
6.03	5.03	5.30	5.26	4.67	5.21	5.26	5.26	4.67	5.20	5.18	4.65
3.46	2.44	2.36	2.30	1.70	2.21	2.30	2.30	1.70	2.19	2.15	1.66
.511	.650	.640	.640	.779	.656	.640	.640	.779	.656	.657	.784
5.59	4.96	5.00	5.00	4.53	4.94	4.94	4.94	4.52	4.94	4.93	4.52
3.46	2.52	2.52	2.52	1.63	2.40	2.40	2.40	1.63	2.40	2.39	1.59
.443	.633	.572	.579	.735	.591	.595	.595	.738	.594	.595	.738
6.01	5.03	5.29	5.26	4.67	5.20	5.26	5.26	4.67	5.20	5.18	4.65
3.43	2.42	2.34	2.29	1.69	2.19	2.29	2.29	1.69	2.19	2.15	1.66
.442	.633	.572	.579	.735	.591	.597	.597	.739	.591	.597	.739
6.01	5.03	5.29	5.26	4.67	5.20	5.26	5.26	4.67	5.20	5.18	4.65
3.43	2.43	2.34	2.29	1.69	2.19	2.29	2.29	1.69	2.19	2.15	1.66
.512	.650	.640	.640	.780	.657	.640	.640	.780	.657	.657	.788
5.59	4.96	5.00	5.00	4.53	4.94	4.94	4.94	4.52	4.94	4.93	4.52
3.45	2.51	2.51	2.52	1.62	2.40	2.40	2.40	1.62	2.40	2.37	1.55



B	$i = 6b$
D18 m.R.	60 %
4x9	X

I n d e x

Übersicht über den Zahlennachweis

lfd. Nr.	Typ	Bezeichnung 1)	Größe 2)	q	i/b	Koordinaten 4)	Seite	Vergleiche lfd. Nr.
1	M	E4	3x6	20 %	∞ 3)	L	193	
2	.	E6	.	.	.	.	193	32
3	.	E8	.	.	.	.	193	19
4	.	E12	.	.	.	.	193	36
5	.	E4	.	.	.	.	194	
6	.	E6	2x4	.	.	.	194	
7	.	E8	.	.	.	.	194	
8	.	E12	.	.	.	.	194	
9	.	D6	2x4	60 % 5)	.	.	195	41
10	.	.	1x4	.	.	.	195	
11	.	D12	2x4	.	.	.	196	47
12	.	.	1x4	.	.	.	196	
13	.	E8	6x12	20 %	2	.	197	33
14	6	.	197	27, 35
15	12	.	198	28, 36
16	.	.	4x8	.	2	.	199	
17	8	.	199	
18	.	.	3x6	.	2	.	200	
19	6	.	200	3
20	.	.	2x4	.	2	.	201	
21	4	.	201	
22	.	.	1x2	.	2	.	201	
23	.	E4	6x12	.	4	H	202	
24	6	.	203	
25	12	.	204	
26	.	E8	.	.	4	.	205	
27	6	.	206	14
28	12	.	207	15
29	B	E9	6x13	20 %	2	x/y	208/209	
30	4	.	210/211	
31	6	.	212/213	
32	12	.	214/215	2
33	.	E18	.	.	2	.	216/217	13
34	4	.	218/219	
35	6	.	220/221	4, 14
36	12	.	222/223	15
37	.	E25	4x9	.	2	.	224/225	
38	8	.	226/227	
39	.	D9	4x9	60 %	2	x	228	
40	3	.	229	
41	6	.	230	9
42	.	D9 6)	.	.	2	.	231	
43	3	.	232	
44	6	.	233	
45	.	D18	.	.	2	.	234	
46	3	.	235	
47	6	.	236	11
48	.	D18 6)	.	.	2	.	237	
49	3	.	238	
50	6	.	239	

1) E = Einzelblock (q = 20 %), D = Doppelblock; Zahl gibt Anzahl Verknüpfungspunkte/Einheit

2) Zahl der Streifen x Zahl der Einheiten/Streifen pro Einzelblock

3) freie Blöcke

4) L = Lageblock, H = Höhenblock, x/y = x- bzw. y-Koordinate (auf zwei Seiten)

5) Kreuzverband

6) mit Verknüpfungen außerhalb des PP-Rahmens