Table 14.3-1 Shrink, Thin and Skeletonize Conditional Mark Patterns (M=1 if hit)

Type	Bond					Patter			vi–1 ii iiit)
S	1	0 0 1	100	000	0 0 0				
		0 1 0	010	010	010				
		000	000	100	0 0 1				
S	2	000	010	000	0 0 0				
		0 1 1	010	110	010				
		000	000	000	010				
S	3	0 0 1	0 1 1	110	100	0 0 0	0 0 0	0 0 0	0 0 0
		0 1 1	0 1 0	010	1 1 0	110	010	010	0 1 1
		000	0 0 0	0 0 0	0 0 0	100	110	0 1 1	0 0 1
TK	4	0 1 0	010	0 0 0	0 0 0				
		0 1 1	110	110	0 1 1				
		000	0 0 0	010	010				
STK	4	0 0 1	1 1 1	100	0 0 0				
		0 1 1	0 1 0	1 1 0	010				
		0 0 1	000	100	1 1 1				
ST	5	1 1 0	010	0 1 1	0 0 1				
		0 1 1	0 1 1	1 1 0	0 1 1				
		000	0 0 1	000	010				
ST	5	0 1 1	1 1 0	000	0 0 0				
		0 1 1	1 1 0	1 1 0	0 1 1				
		000	000	1 1 0	0 1 1				
ST	6	110	0 1 1						
		0 1 1	110						
CODIA		0 0 1	100	1 1 1	1.1.0	1.0.0	0.00	0.00	0.0.1
STK	6	111	0 1 1	111	110	100	000	000	0 0 1
		011	0 1 1	110	110	110	110	0 1 1	0 1 1
STK	7	111	0 0 1	100	100	1 1 0	111	111	0 1 1
SIK	/	011	111	110	011				
		0 0 1	100	111	111				
STK	8	011	111	110	000				
STIC	0	0 1 1	111	110	111				
		0 1 1	000	110	111				
STK	9	111	0 1 1	111	111	111	1 1 0	100	0 0 1
5111		0 1 1	011	111	111	110	110	111	1 1 1
		0 1 1	111	100	0 0 1	110	111	111	111
STK	10	111	111	111	101				
		0 1 1	111	110	111				
		111	101	111	111				
K	11	111	111	110	0 1 1				
		111	111	111	111				
		0 1 1	110	111	111				

Table 14.3-2 Shrink and Thin Unconditional Mark Patterns

Single														
Single 4-connection 0 0 0 0 0 0 0 0 0 0 4-connection 0 M 0 0 0 M M M 0 M 0 0 0 M M M 0 M 0 0 0 M M M M	Spur	0	0	M	M	0	0							
Single		0	M	0	0	M	0							
4-connection		0	0	0	0	0	0							
Cluster	Single	0	0	0	0	0	0							
Cluster	4-connection	0	M	0	0	M	M							
Cluster (Only for (Only		0	M	0	0	0	0							
(Only for Thinning!!)         0		0	0	M	0	M	M	M	M	0	M	0	0	
Thinning!!)    O	L Cluster	0	M	M	0	M	0	0	M	0	M	M	0	
M	(Only for	0	0	0	0	0	0	0	0	0	0	0	0	
M	Thinning!!)	0	0	0	0	0	0	0	0	0	0	0	0	
A-connected		M	M	0	0	M	0	0	M	0	0	M	M	
Offset         M         M         0         0         M         M         0         M         M         0         M         M         0         M         M         0         M         M         0         M         M         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         0         0         M         M         M         0         0         0         M <td></td> <td>M</td> <td>0</td> <td>0</td> <td>M</td> <td>M</td> <td>0</td> <td>0</td> <td>M</td> <td>M</td> <td>0</td> <td>0</td> <td>M</td> <td></td>		M	0	0	M	M	0	0	M	M	0	0	M	
Spur corner Cluster  0	4-connected	0	M	M	M	M	0	0	M	0	0	0	M	
Spur corner         0	Offset	M	M	0	0	M	M	0	M	M	0	M	M	
Cluster		0	0	0	0	0	0	0	0	M	0	M	0	
Corner Cluster   M   M   D   D   D   D   D   D   D   D	Spur corner	0	A	M	M	В	0	0	0	M	M	0	0	
M	Cluster	0	M	В	A	M	0	A	M	0	0	M	В	
Cluster         M         M         D           D         D         D         D         D         D         D         O         O         D         D         O         O         O         O         O         D         D         O         O         O         O         O         D         D         D         O         O         O         O         O         O         D         D         M </td <td></td> <td>M</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>M</td> <td>M</td> <td>В</td> <td>0</td> <td>0</td> <td>A</td> <td>M</td> <td></td>		M	0	0	0	0	M	M	В	0	0	A	M	
Tee Branch    D	Corner	M	M	D										
Tee Branch  D M O O M D D O O D D O O O D D O O O D D O O D D O O D D O O D D D O O D D D O D	Cluster	M	M	D										
M         D         M         D         M         D         M         D         M         M         M         M         M         M         M         M         M         M         M         D         M         D         M         M         M         M         M         M         D         M         D         M         M         M         M         M         M         D         M         D         M		D	D	D										
D         0         0         0         D         0         M         D         D         M         0           D         M         D         0         M         0         0         M         0         D         M         D           M         M         0         M         M         D         D         M         D         0         M         M         M           Vee Branch         M         D         M         D         D         M         D         D         M         D         M         D         M         D         M         D         M         D         M         D         M         D         M         D         M         D         M         D         M         D         D         M         D         D         M         D         D         M         D         D         M         D         D         M         D         D         D         M         M         D         D         M         M         D         D         M         M         D         D         M         M         D         D         M         M         D	Tee Branch	D	M	0	0	M	D	0	0	D	D	0	0	
D M D 0 M 0 0 M 0 D M D M M 0 M M 0 0 M M M 0 M M D D M D M D 0 M 0  Vee Branch D M D D M B D M D B M D A B C M D A M D M C D M  Diagonal Diagonal D M M M M M M M M O M M O D M M M D D M M M M O M M O D M M M O D D M M M O M M O M M		M	M	M	M	M	M	M	M	M	M	M	M	
M M 0 M M 0 0 M M 0 0 M M 0 0 M M 0 M 0 D M D D M D 0 M 0  Vee Branch D M D D M B D M D B M D A B C M D A M D M C D M  Diagonal Diagonal D M M M M M M M 0 M M 0 D D M M M 0 D D M M		D	0	0	0	0	D	0	M	D	D	M	0	
Vee Branch         M         D         M         D         D         M         D         M         0           Vee Branch         M         D         M         D         C         C         B         A         A         D         M           D         M         D         D         M         B         D         M         D         B         M         D           A         B         C         M         D         A         M         D         M         C         D         M           Diagonal         D         M         M         D         D         0         M         M         0         D           Branch         0         M         M         M         0         M         D         D         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         M         0         0         M         0         0         M         0         0         M <t< td=""><td></td><td>D</td><td>M</td><td>D</td><td>0</td><td>M</td><td>0</td><td>0</td><td>M</td><td>0</td><td>D</td><td>M</td><td>D</td><td></td></t<>		D	M	D	0	M	0	0	M	0	D	M	D	
Vee Branch         M         D         M         D         C         C         B         A         A         D         M           D         M         D         D         M         B         D         M         D         B         M         D           A         B         C         M         D         A         M         D         M         C         D         M           Diagonal         D         M         M         D         D         0         M         M         0         D           Branch         0         M         M         M         0         M         D         D         M         0		M	M	0	M	M	0	0	M	M	0	M	M	
D M D D M B D M D B M D A B C M D A M D M C D M  Diagonal D M 0 0 M D D 0 M M 0 D  Branch 0 M M M M 0 M 0 M D D M 0		0	M	0	D	M	D	D	M	D	0	M	0	
A         B         C         M         D         A         M         D         M         C         D         M           Diagonal         D         M         0         0         M         D         D         0         M         M         0         D           Branch         0         M         M         M         0         M         M         0         M         M         0         M         M         0         M         0         M         0         M         0         M         0         0         M         0         0         M         0         0         M         0         0         M         0         0         0         M         0         <	Vee Branch	M	D	M	M	D	С	С	В	A	A	D	M	
Diagonal         D         M         0         M         D         D         0         M         M         0         D           Branch         0         M         M         M         0         M         M         0         M         M         M         M         M         M         M         M         M         D         D         M         M         M         D         D         M         0         M         D         D         M         0         M         0         D         M         0         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         M         0         D         D         D         M         0         D         D         D         D         <		D	M	D	D	M	В	D	M	D	В	M	D	
Branch		Α	В	C	M	D	A	M	D	M	C	D	M	
M 0 D D 0 M 0 M D D M 0	Diagonal	D	M	0	0	M	D	D	0	M	M	0	D	
	Branch	0	M	M	M	M	0	M	M	0	0	M	M	
A or B or $C = 1$ $D = 0$ or 1  A or $B = 1$		M	0	D	D	0	M	0	M	D	D	M	0	
	A or B or C =	1	D =	0 or 1	A	A or I	3 = 1							

Table 14.3-3 Skeletonize Unconditional Mark Patterns

Spur	0	0	0	0	0	0	0	0	M	M	0	0	
	0	M	0	0	M	0	0	M	0	0	M	0	
	0	0	M	M	0	0	0	0	0	0	0	0	
Single	0	0	0	0	0	0	0	0	0	0	M	0	
4-connection	0	M	0	0	M	M	M	M	0	0	M	0	
	0	M	0	0	0	0	0	0	0	0	0	0	
L Corner	0	M	0	0	M	0	0	0	0	0	0	0	
	0	M	M	M	M	0	0	M	M	M	M	0	
	0	0	0	0	0	0	0	M	0	0	M	0	
Corner	M	M	D	D	D	D							
Cluster	M	M	D	D	M	M							
	D	D	D	D	M	M							
Tee Branch	D	M	D	D	M	D	D	D	D	D	M	D	
	M	M	M	M	M	D	M	M	M	D	M	M	
	D	D	D	D	M	D	D	M	D	D	M	D	
Vee Branch	M	D	M	M	D	С	С	В	A	A	D	M	
	D	M	D	D	M	В	D	M	D	В	M	D	
	A	В	C	M	D	A	M	D	M	С	D	M	
Diagonal	D	M	0	0	M	D	D	0	M	M	0	D	
Branch	0	M	M	M	M	0	M	M	0	0	M	M	
	M	0	D	D	0	M	0	M	D	D	M	0	

A or B or C = 1 D = 0 or 1