

From "Elements of X-Ray Diffraction"
B.D. Cullity

APPENDIX 6 Addison-Wesley
1956

QUADRATIC FORMS OF MILLER INDICES

pp 471-472

$h^2 + k^2 + l^2$	Cubic				Hexagonal	
	hkl				$h^2 + hk + k^2$	hk
Simple	Face-centered	Body-centered	Diamond			
1	100				1	10
2	110	...	110		2	
3	111	111	...	111	3	11
4	200	200	200		4	20
5	210				5	
6	211	...	211		6	
7					7	21
8	220	220	220	220	8	
9	300, 221				9	30
10	310	...	310		10	
11	311	311	...	311	11	
12	222	222	222		12	22
13	320				13	31
14	321	...	321		14	
15					15	
16	400	400	400	400	16	40
17	410, 322				17	
18	411, 330	...	411, 330		18	
19	331	331	...	331	19	32
20	420	420	420		20	
21	421				21	41
22	332	...	332		22	
23					23	
24	422	422	422	422	24	
25	500, 430				25	50
26	510, 431	...	510, 431		26	
27	511, 333	511, 333	...	511, 333	27	33
28					28	42
29	520, 432				29	
30	521	...	521		30	
31					31	51
32	440	440	440	440	32	
33	522, 441				33	
34	530, 433	...	530, 433		34	
35	531	531	...	531	35	
36	600, 442	600, 442	600, 442		36	60
37	610				37	43
38	611, 532	...	611, 532		38	
39					39	52
40	620	620	620	620	40	
41	621, 540, 443				41	
42	541	...	541		42	
43	533	533	...	533	43	61
44	622	622	622		44	
45	630, 542				45	
46	631	...	631		46	
47					47	
48	444	444	444	444	48	44
49	700, 632				49	70, 53

VALUES OF $(\sin \theta)/\lambda$

[APP. 7

$h^2 + k^2 + l^2$	Cubic				Hexagonal	
	hkl				$h^2 + hk + k^2$	hk
Simple	Face-centered	Body-centered	Diamond			
50	710, 550, 543	...	710, 550, 543		50	
51	711, 551	711, 551	...	711, 551	51	
52	640	640	640		52	62
53	720, 641				53	
54	721, 633, 552	...	721, 633, 552		54	
55					55	
56	642	642	642	642	56	
57	722, 544				57	71
58	730	...	730		58	
59	731, 553	731, 553	...	731, 553	59	