

Table 21.1

EIGENVALUES—PROLATE AND OBLATE

		PROLATE				
		$\lambda_{mn}(c) - m(m+1)$ *				
		$\lambda_{2n}(c) - 6$ *				
$c^2 \backslash n$	2	3	4	5	6	
0	0.000000	6.000000	14.000000	24.000000	36.000000	
1	0.140948	6.331101	14.402353	24.436145	36.454889	
2	0.278219	6.657791	14.804100	24.872744	36.910449	
3	0.412006	6.980147	15.205077	25.309731	37.366657	
4	0.542495	7.298250	15.605133	25.747043	37.823486	
5	0.669857	7.612179	16.004126	26.184612	38.280913	
6	0.794252	7.922016	16.401931	26.622373	38.738910	
7	0.915832	8.227840	16.798429	27.060261	39.197451	
8	1.034738	8.529734	17.193516	27.498208	39.656510	
9	1.151100	8.827778	17.587093	27.936151	40.116059	
10	1.265042	9.122052	17.979073	28.374023	40.576070	
11	1.376681	9.412636	18.369377	28.811761	41.036514	
12	1.486122	9.699610	18.757932	29.249302	41.497364	
13	1.593469	9.983052	19.144675	29.686584	41.958589	
14	1.698816	10.263039	19.529549	30.123544	42.420160	
15	1.802252	10.539650	19.912501	30.560125	42.882048	
16	1.903860	10.812958	20.293486	30.996267	43.344222	
	$\left[ \begin{smallmatrix} (-4)5 \\ 4 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-4)6 \\ 4 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-4)2 \\ 4 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-5)6 \\ 4 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-5)8 \\ 4 \end{smallmatrix} \right]$	
$c^{-1} \backslash n$	2	3	4	5	6	
		$c^{-1}[\lambda_{2n}(c) - 6]$ *				
0.25	0.475965	2.703239	5.073371	7.74906	10.8360	
0.24	0.489447	2.683149	4.994116	7.58138	10.5536	
0.23	0.503526	2.665356	4.919290	7.41971	10.2781	
0.22	0.518220	2.650003	4.849313	7.26479	10.0103	
0.21	0.533551	2.637236	4.784640	7.11743	9.7512	
0.20	0.549534	2.627196	4.725757	6.97858	9.5023	
0.19	0.566185	2.620017	4.673177	6.84931	9.2649	
0.18	0.583513	2.615819	4.627427	6.73081	9.0409	
0.17	0.601526	2.614701	4.589031	6.62442	8.8323	
0.16	0.620224	2.616735	4.558480	6.53155	8.6417	
0.15	0.639604	2.621954	4.536196	6.45371	8.4718	
0.14	0.659659	2.630349	4.522485	6.39236	8.3260	
0.13	0.680376	2.641862	4.517479	6.34878	8.2078	
0.12	0.701737	2.656384	4.521086	6.32389	8.1208	
0.11	0.723722	2.673764	4.532956	6.31794	8.0678	
0.10	0.746308	2.693817	4.552484	6.33030	8.0507	
0.09	0.769471	2.716339	4.578871	6.35935	8.0688	
0.08	0.793186	2.741120	4.611219	6.40263	8.1184	
0.07	0.817429	2.767960	4.648642	6.45738	8.1932	
0.06	0.842175	2.796673	4.690346	6.52096	8.2864	
0.05	0.867402	2.827089	4.735658	6.59127	8.3919	
0.04	0.893087	2.859059	4.784022	6.66670	8.5057	
0.03	0.919209	2.892449	4.834980	6.74607	8.6249	
0.02	0.945747	2.927138	4.888160	6.82849	8.7477	
0.01	0.972684	2.963019	4.943252	6.91330	8.8730	
0.00	1.000000	3.000000	5.000000	7.00000	9.0000	
	$\left[ \begin{smallmatrix} (-5)9 \\ 4 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-4)4 \\ 5 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-3)1 \\ 6 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-3)2 \\ 6 \end{smallmatrix} \right]$	$\left[ \begin{smallmatrix} (-3)4 \\ 5 \end{smallmatrix} \right]$	

\*See page II.