

Table 21.1

EIGENVALUES—PROLATE AND OBLATE

PROLATE					
$\lambda_{mn}(c) - m(m+1)$ *					
$\lambda_{1n}(c) - 2$ *					
$c^2 \backslash n$	1	2	3	4	5
0	0.000000	4.000000	10.000000	18.000000	28.000000
1	0.195548	4.424699	10.467915	18.481696	28.488065
2	0.382655	4.841718	10.937881	18.965685	28.977891
3	0.561975	5.251162	11.409266	19.451871	29.469456
4	0.734111	5.653149	11.881493	19.940143	29.962738
5	0.899615	6.047807	12.354034	20.430382	30.457716
6	1.058995	6.435272	12.826413	20.922458	30.954363
7	1.212711	6.815691	13.298196	21.416235	31.452653
8	1.361183	7.189213	13.768997	21.911569	31.952557
9	1.504795	7.555998	14.238466	22.408312	32.454044
10	1.643895	7.916206	14.706292	22.906311	32.957080
11	1.778798	8.270004	15.172199	23.405410	33.461629
12	1.909792	8.617558	15.635940	23.905451	33.967652
13	2.037141	8.959038	16.097297	24.406277	34.475109
14	2.161081	9.294612	16.556078	24.907729	34.983956
15	2.281832	9.624450	17.012115	25.409649	35.494147
16	2.399593	9.948719	17.465260	25.911881	36.005634
	$\begin{bmatrix} (-3)1 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-3)1 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-4)4 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-4)3 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)2 \\ 4 \end{bmatrix}$
$c^{-1}[\lambda_{1n}(c) - 2]$ *					
$c^{-1} \backslash n$	1	2	3	4	5
0.25	0.599898	2.487179	4.366315	6.47797	9.00140
0.24	0.613295	2.491544	4.338520	6.38296	8.80891
0.23	0.627023	2.497852	4.315609	6.29522	8.62445
0.22	0.641073	2.506130	4.297923	6.21556	8.44916
0.21	0.655431	2.516383	4.285792	6.14494	8.28436
0.20	0.670084	2.528591	4.279522	6.08438	8.13163
0.19	0.685014	2.542705	4.279366	6.03498	7.99282
0.18	0.700204	2.558644	4.285495	5.99788	7.87010
0.17	0.715632	2.576296	4.297965	5.97420	7.76598
0.16	0.731281	2.595516	4.316672	5.96496	7.68328
0.15	0.747129	2.616135	4.341320	5.97090	7.62508
0.14	0.763159	2.637968	4.371397	5.99230	7.59446
0.13	0.779353	2.660829	4.406191	6.02874	7.59407
0.12	0.795696	2.684536	4.444844	6.07889	7.62539
0.11	0.812174	2.708934	4.486445	6.14051	7.68773
0.10	0.828776	2.733891	4.530151	6.21063	7.77728
0.09	0.845493	2.759305	4.575277	6.28624	7.88714
0.08	0.862316	2.785099	4.621329	6.36482	8.00897
0.07	0.879237	2.811212	4.667984	6.44473	8.13579
0.06	0.896251	2.837600	4.715031	6.52505	8.26355
0.05	0.913352	2.864224	4.762333	6.60532	8.39048
0.04	0.930535	2.891056	4.809790	6.68528	8.51592
0.03	0.947796	2.918069	4.857332	6.76480	8.63963
0.02	0.965129	2.945243	4.904906	6.84378	8.76153
0.01	0.982531	2.972558	4.952472	6.92219	8.88164
0.00	1.000000	3.000000	5.000000	7.00000	9.00000
	$\begin{bmatrix} (-5)4 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)2 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-4)8 \\ 6 \end{bmatrix}$	$\begin{bmatrix} (-3)2 \\ 6 \end{bmatrix}$	$\begin{bmatrix} (-3)4 \\ 7 \end{bmatrix}$

\*See page II.