

EIGENVALUES—PROLATE AND OBLATE Table 21.1

OBLATE					
$\lambda_{mn}(-ic) - m(m+1)$ *					
$\lambda_{2n}(-ic) - 6$ *					
$c^2 \setminus n$	2	3	4	5	6
0	0.000000	6.000000	14.000000	24.000000	36.000000
1	-0.144837	5.664409	13.597220	23.564371	35.545806
2	-0.293786	5.324253	13.194206	23.129322	35.092330
3	-0.447086	4.979458	12.791168	22.694912	34.639597
4	-0.604989	4.629951	12.388328	22.261201	34.187627
5	-0.767764	4.275662	11.985928	21.828245	33.736444
6	-0.935698	3.916525	11.584224	21.396098	33.286069
7	-1.109090	3.552475	11.183489	20.964812	32.836522
8	-1.288259	3.183450	10.784014	20.534436	32.387826
9	-1.473539	2.809393	10.386106	20.105013	31.940000
10	-1.665278	2.430250	9.990084	19.676587	31.493066
11	-1.863838	2.045970	9.596286	19.249195	31.047043
12	-2.069595	1.656508	9.205059	18.822869	30.601952
13	-2.282933	1.261822	8.816762	18.397640	30.157814
14	-2.504245	0.861875	8.431761	17.973532	29.714648
15	-2.733927	0.456635	8.050424	17.550565	29.272476
16	-2.972375	0.046076	7.673121	17.128753	28.831317
	$\begin{bmatrix} (-3)1 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)7 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)5 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)1 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)1 \\ 4 \end{bmatrix}$
$c^{-2} \{ \lambda_{2n}(-ic) - 6 \}$ *					
$c^{-1} \setminus n$	2	3	4	5	6
0.25	-0.185773	+0.002879	0.47957	1.07054	1.8019
0.24	-0.190754	-0.030028	0.41280	0.95365	1.6261
0.23	-0.196680	-0.062228	0.34933	0.84167	1.4577
0.22	-0.203790	-0.093813	0.28933	0.73461	1.2965
0.21	-0.212386	-0.124893	0.23297	0.63251	1.1428
0.20	-0.222841	-0.155607	0.18049	0.53537	0.9964
0.19	-0.235596	-0.186120	0.13215	0.44322	0.8574
0.18	-0.251126	-0.216631	0.08816	0.35607	0.7260
0.17	-0.269873	-0.247375	0.04864	0.27389	0.6022
0.16	-0.292149	-0.278624	+0.01342	0.19662	0.4863
0.15	-0.318047	-0.310677	-0.01813	0.12409	0.3785
0.14	-0.347414	-0.343847	-0.04727	+0.05600	0.2795
0.13	-0.379928	-0.378432	-0.07609	-0.00822	0.1901
0.12	-0.415213	-0.414688	-0.10778	-0.06954	0.1120
0.11	-0.452947	-0.452800	-0.14643	-0.12937	+0.0470
0.10	-0.492902	-0.492871	-0.19508	-0.18959	-0.0051
0.09	-0.534942	-0.534937	-0.25333	-0.25217	-0.0517
0.08	-0.578991	-0.578991	-0.31876	-0.31861	-0.1076
0.07	-0.625006	-0.625006	-0.38955	-0.38955	-0.1844
0.06	-0.672956	-0.672956	-0.46494	-0.46494	-0.2768
0.05	-0.722813	-0.722813	-0.54456	-0.54456	-0.3791
0.04	-0.774556	-0.774556	-0.62821	-0.62821	-0.4895
0.03	-0.828164	-0.828164	-0.71571	-0.71571	-0.6073
0.02	-0.883618	-0.883618	-0.80691	-0.80691	-0.7319
0.01	-0.940902	-0.940902	-0.90171	-0.90171	-0.8629
0.00	-1.000000	-1.000000	-1.00000	-1.00000	-1.0000
	$\begin{bmatrix} (-4)5 \\ 6 \end{bmatrix}$	$\begin{bmatrix} (-4)2 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-3)1 \\ 8 \end{bmatrix}$	$\begin{bmatrix} (-4)6 \\ 6 \end{bmatrix}$	$\begin{bmatrix} (-3)3 \\ 8 \end{bmatrix}$

*See page II.