

EIGENVALUES—PROLATE AND OBLATE

Table 21.1

OBLATE

	$\lambda_{mn}(-ic) - m(m+1)$ *				
	$\lambda_{1n}(-ic) - 2$ *				
$c^2 \backslash n$	1	2	3	4	5
0	0.000000	4.000000	10.000000	18.000000	28.000000
1	-0.204695	3.567527	9.534818	17.520683	27.513713
2	-0.419293	3.127202	9.073104	17.043817	27.029223
3	-0.644596	2.678958	8.615640	16.569461	26.546548
4	-0.881446	2.222747	8.163245	16.097655	26.065706
5	-1.130712	1.758534	7.716768	15.628426	25.586715
6	-1.393280	1.286300	7.277072	15.161786	25.109592
7	-1.670028	0.806045	6.845015	14.697727	24.634357
8	-1.961809	+0.317782	6.421425	14.236229	24.161031
9	-2.269420	-0.178458	6.007074	13.777252	23.689634
10	-2.593577	-0.682630	5.602649	13.320743	23.220190
11	-2.934882	-1.194673	5.208724	12.866634	22.752726
12	-3.293803	-1.714511	4.825732	12.414840	22.287271
13	-3.670646	-2.242055	4.453947	11.965266	21.823856
14	-4.065548	-2.777205	4.093464	11.517803	21.362516
15	-4.478470	-3.319848	3.744202	11.072331	20.903290
16	-4.909200	-3.869861	3.405903	10.628718	20.446222
	$\left[ \begin{matrix} (-3)2 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-3)1 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-3)1 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-4)3 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-4)3 \\ 4 \end{matrix} \right]$
	$c^{-2}[\lambda_{1n}(-ic) - 2]$ *				
$c^{-1} \backslash n$	1	2	3	4	5
0.25	-0.306825	-0.241866	0.21286	0.66429	1.2778
0.24	-0.318148	-0.266693	0.17062	0.57759	1.1420
0.23	-0.330984	-0.291340	0.13125	0.49460	1.0120
0.22	-0.345469	-0.315894	0.09476	0.41533	0.8879
0.21	-0.361702	-0.340450	0.06107	0.33974	0.7697
0.20	-0.379735	-0.365113	0.03001	0.26779	0.6575
0.19	-0.399564	-0.389998	+0.00127	0.19942	0.5515
0.18	-0.421125	-0.415222	-0.02563	0.13449	0.4520
0.17	-0.444308	-0.440907	-0.05142	0.07282	0.3591
0.16	-0.468974	-0.467166	-0.07710	+0.01411	0.2735
0.15	-0.494976	-0.494104	-0.10406	-0.04205	0.1958
0.14	-0.522180	-0.521805	-0.13412	-0.09625	0.1271
0.13	-0.550474	-0.550335	-0.16924	-0.14929	0.0680
0.12	-0.579775	-0.579732	-0.21076	-0.20210	+0.0183
0.11	-0.610027	-0.610016	-0.25868	-0.25572	-0.0250
0.10	-0.641193	-0.641191	-0.31185	-0.31111	-0.0685
0.09	-0.673251	-0.673251	-0.36901	-0.36888	-0.1219
0.08	-0.706186	-0.706186	-0.42934	-0.42932	-0.1907
0.07	-0.739985	-0.739985	-0.49242	-0.49242	-0.2714
0.06	-0.774638	-0.774638	-0.55807	-0.55807	-0.3598
0.05	-0.810135	-0.810135	-0.62616	-0.62616	-0.4542
0.04	-0.846468	-0.846468	-0.69657	-0.69657	-0.5540
0.03	-0.883628	-0.883628	-0.76923	-0.76923	-0.6588
0.02	-0.921608	-0.921608	-0.84406	-0.84406	-0.7682
0.01	-0.960401	-0.960401	-0.92100	-0.92100	-0.8820
0.00	-1.000000	-1.000000	-1.00000	-1.00000	-1.0000
	$\left[ \begin{matrix} (-4)2 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-4)1 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-4)8 \\ 6 \end{matrix} \right]$	$\left[ \begin{matrix} (-4)5 \\ 5 \end{matrix} \right]$	$\left[ \begin{matrix} (-3)2 \\ 7 \end{matrix} \right]$

\*See page II.