

λ_n values for solid sphere. Values are calculated by using goal seek building function of microsoft excel.
The characteristic values λ_n are the positive roots of eqn. (2.90)

	Bi:1	Bi:10	Bi:50	Bi:100
n	λ_n	λ_n	λ_n	λ_n
1	1.570796327	2.836300389	3.078841645	3.110186953
2	4.712388976	5.717249199	6.158163965	6.220435121
3	7.853981634	8.658704702	9.238426187	9.330805008
4	10.99557429	11.65320755	12.32004696	12.44135573
5	14.13716694	14.6869374	15.40338943	15.55214434
6	17.27875959	17.74806901	18.48875155	18.66322528
7	20.42035225	20.82822625	21.57636198	21.77464982
8	23.5619449	23.92179001	24.66638089	24.88646563
9	26.70353756	27.02501045	27.75890479	27.99871645
10	29.84513021	30.13535038	30.85397396	31.1114418
11	32.98672286	33.25105728	33.95158139	34.22467683
12	36.12831552	36.37089332	37.05168203	37.33845225
13	39.26990817	39.49396491	40.15420174	40.45279431
14	42.41150082	42.6196137	43.25904533	43.5677249
15	45.55309348	45.74734546	46.36610341	46.68326168
16	48.69468613	48.87678285	49.47525816	49.79941824
17	51.83627878	52.00763325	52.58638778	52.91620439
18	54.97787144	55.13966657	55.69936999	56.03362639
19	58.11946409	58.27269959	58.81408458	59.15168723
20	61.26105674	61.4065847	61.93041526	62.27038696
21	64.4026494	64.54120176	65.04825085	65.38972294
22	67.54424205	67.676452	68.16748606	68.5096902
23	70.68583471	70.81225356	71.28802189	71.63028167
24	73.82742736	73.94853798	74.40976575	74.75148851
25	76.96902001	77.08524766	77.53263146	77.87330033
26	80.11061267	80.22233372	80.65653907	80.99570547
27	83.25220532	83.35975449	83.78141454	84.11869121
28	86.39379797	86.49747419	86.9071895	87.24224399
29	89.53539063	89.63546193	90.03380086	90.36634956
30	92.67698328	92.77369093	93.16119046	93.49099319
31	95.81857593	95.91213785	96.28930474	96.61615981
32	98.96016859	99.05078225	99.41809436	99.74183412
33	102.1017612	102.1896062	102.5475139	102.8680007
34	105.2433539	105.3285937	105.6775214	105.9946442
35	108.3849465	108.4677309	108.8080784	109.1217492
36	111.5265392	111.6070052	111.9391492	112.2493006
37	114.6681319	114.7464054	115.0707012	115.3772834
38	117.8097245	117.8859217	118.202704	118.505683
39	120.9513172	121.025545	121.3351296	121.6344848
40	124.0929098	124.1652673	124.4679523	124.7636749
41	127.2345025	127.3050814	127.601148	127.8932395
42	130.3760951	130.4449806	130.7346947	131.0231652
43	133.5176878	133.584959	133.8685718	134.1534393
44	136.6592804	136.7250112	137.0027603	137.284049
45	139.8008731	139.8651322	140.1372425	140.4149823
46	142.9424657	143.0053176	143.272002	143.5462274
47	146.0840584	146.1455632	146.4070235	146.6777729
48	149.225651	149.2858652	149.5422928	149.8096081
49	152.3672437	152.4262202	152.6777966	152.9417223
50	155.5088364	155.566625	155.8135227	156.0741054
51	158.650429	158.7070766	158.9494593	159.2067476
52	161.7920217	161.8475723	162.0855958	162.3396396
53	164.9336143	164.9881097	165.2219221	165.4727724
54	168.075207	168.1286863	168.3584287	168.6061372
55	171.2167996	171.2693002	171.4951068	171.7397257
56	174.3583923	174.4099491	174.6319481	174.87353
57	177.4999849	177.5506313	177.7689448	178.0075423
58	180.6415776	180.6913451	180.9060897	181.1417553
59	183.7831702	183.8320889	184.0433757	184.2761619
60	186.9247629	186.9728611	187.1807966	187.4107554
61	190.0663555	190.1136603	190.3183461	190.5455291
62	193.2079482	193.2544853	193.4560186	193.6804769
63	196.3495408	196.3953347	196.5938087	196.8155927
64	199.4911335	199.5362075	199.7317112	199.9508708
65	202.6327262	202.6771026	202.8697214	203.0863057
66	205.7743188	205.8180189	206.0078347	206.221892
67	208.9159115	208.9589555	209.1460467	209.3576246
68	212.0575041	212.0999115	212.2843535	212.4934987
69	215.1990968	215.240886	215.4227512	215.6295096
70	218.3406894	218.3818783	218.5612361	218.7656528