

Table 6.3.3.2. Values of  $A^*$  for cylinders

$\mu R$	$\theta = 0^\circ$	$\theta = 5^\circ$	$\theta = 10^\circ$	$\theta = 15^\circ$	$\theta = 20^\circ$	$\theta = 25^\circ$	$\theta = 30^\circ$	$\theta = 35^\circ$	$\theta = 40^\circ$	$\theta = 45^\circ$	$\theta = 50^\circ$	$\theta = 55^\circ$	$\theta = 60^\circ$	$\theta = 65^\circ$	$\theta = 70^\circ$	$\theta = 75^\circ$	$\theta = 80^\circ$	$\theta = 85^\circ$	$\theta = 90^\circ$
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.1	1.1843	1.1843	1.1842	1.1840	1.1838	1.1835	1.1832	1.1828	1.1823	1.1818	1.1813	1.1808	1.1802	1.1798	1.1793	1.1790	1.1787	1.1785	1.1785
0.2	1.4009	1.4007	1.4002	1.3995	1.3984	1.3970	1.3953	1.3934	1.3912	1.3889	1.3865	1.3841	1.3818	1.3796	1.3777	1.3761	1.3749	1.3741	1.3739
0.3	1.6548	1.6544	1.6531	1.6510	1.6481	1.6443	1.6398	1.6347	1.6290	1.6230	1.6169	1.6108	1.6049	1.5994	1.5946	1.5906	1.5876	1.5857	1.5851
0.4	1.9522	1.9513	1.9485	1.9439	1.9376	1.9296	1.9201	1.9094	1.8979	1.8857	1.8733	1.8611	1.8495	1.8388	1.8293	1.8215	1.8157	1.8121	1.8108
0.5	2.2996	2.2979	2.2926	2.2840	2.2721	2.2572	2.2398	2.2204	2.1996	2.1781	2.1564	2.1352	2.1152	2.0969	2.0809	2.0677	2.0579	2.0518	2.0497
0.6	2.7047	2.7017	2.6926	2.6775	2.6570	2.6317	2.6023	2.5701	2.5359	2.5010	2.4662	2.4327	2.4012	2.3728	2.3480	2.3277	2.3126	2.3033	2.3001
0.7	3.1762	3.1712	3.1561	3.1315	3.0982	3.0575	3.0111	2.9607	2.9081	2.8549	2.8028	2.7530	2.7068	2.6653	2.6295	2.6003	2.5786	2.5651	2.5606
0.8	3.7236	3.7157	3.6919	3.6532	3.6015	3.5392	3.4691	3.3941	3.3169	3.2400	3.1656	3.0953	3.0307	2.9732	2.9239	2.8839	2.8542	2.8359	2.8297
0.9	4.3578	4.3456	4.3093	4.2507	4.1733	4.0812	3.9792	3.8718	3.7629	3.6560	3.5538	3.4584	3.3717	3.2951	3.2299	3.1772	3.1383	3.1142	3.1061
1.0	5.0907	5.0724	5.0185	4.9323	4.8196	4.6877	4.5439	4.3948	4.2461	4.1022	3.9664	3.8413	3.7286	3.6298	3.5462	3.4790	3.4295	3.3990	3.3886
1.1	5.9356	5.9089	5.8305	5.7065	5.5466	5.3624	5.1649	4.9636	4.7660	4.5776	4.4022	4.2424	4.0998	3.9759	3.8717	3.7882	3.7269	3.6891	3.6763
1.2	6.907	6.869	6.757	6.582	6.360	6.109	5.8436	5.5782	5.3219	5.0811	4.8598	4.6604	4.4842	4.3322	4.2051	4.1038	4.0295	3.9838	3.9682
1.3	8.021	7.967	7.810	7.568	7.266	6.929	6.581	6.238	5.9125	5.6110	5.3376	5.0938	4.8805	4.6976	4.5456	4.4248	4.3365	4.2821	4.2636
1.4	9.294	9.219	9.003	8.674	8.268	7.826	7.376	6.942	6.536	6.166	5.8341	5.5413	5.2873	5.0711	4.8922	4.7506	4.6471	4.5835	4.5619
1.5	10.746	10.643	10.349	9.907	9.372	8.800	8.230	7.689	7.192	6.744	6.348	6.002	5.7036	5.4516	5.2441	5.0804	4.9609	4.8875	4.8625
1.6	12.397	12.257	11.862	11.276	10.581	9.852	9.141	8.477	7.877	7.344	6.877	6.473	6.128	5.8385	5.6007	5.4136	5.2773	5.1935	5.1650
1.7	14.267	14.080	13.555	12.788	11.897	10.982	10.106	9.304	8.589	7.963	7.420	6.955	6.561	6.231	5.961	5.7499	5.5960	5.5014	5.4691
1.8	16.379	16.131	15.441	14.450	13.323	12.189	11.125	10.168	9.327	8.600	7.976	7.446	7.000	6.628	6.326	6.089	5.9166	5.8107	5.7746
1.9	18.76	18.43	17.53	16.267	14.858	13.470	12.194	11.066	10.089	9.253	8.544	7.946	7.444	7.030	6.693	6.430	6.239	6.121	6.081
2.0	21.43	21.00	19.84	18.24	16.50	14.824	13.311	11.995	10.871	9.921	9.122	8.452	7.895	7.435	7.063	6.773	6.562	6.433	6.389
2.1	24.41	23.87	22.39	20.38	18.25	16.247	14.472	12.953	11.673	10.602	9.709	8.965	8.349	7.843	7.436	7.118	6.887	6.745	6.697
2.2	27.74	27.04	25.17	22.69	20.11	17.74	15.675	13.938	12.493	11.295	10.304	9.484	8.808	8.255	7.810	7.464	7.213	7.059	7.006
2.3	31.44	30.55	28.20	25.16	22.07	19.29	16.92	14.947	13.328	11.999	10.906	10.008	9.271	8.669	8.187	7.812	7.540	7.372	7.315
2.4	35.54	34.41	31.49	27.79	24.13	20.90	18.19	15.978	14.177	12.711	11.515	10.537	9.736	9.086	8.565	8.161	7.868	7.687	7.625
2.5	40.06	38.65	35.05	30.59	26.28	22.56	19.50	17.03	15.040	13.433	12.130	11.069	10.205	9.505	8.945	8.511	8.196	8.002	7.935

Table 6.3.3.3. Values of  $A^*$  for spheres

$\mu R$	$\theta = 0^\circ$	$\theta = 5^\circ$	$\theta = 10^\circ$	$\theta = 15^\circ$	$\theta = 20^\circ$	$\theta = 25^\circ$	$\theta = 30^\circ$	$\theta = 35^\circ$	$\theta = 40^\circ$	$\theta = 45^\circ$	$\theta = 50^\circ$	$\theta = 55^\circ$	$\theta = 60^\circ$	$\theta = 65^\circ$	$\theta = 70^\circ$	$\theta = 75^\circ$	$\theta = 80^\circ$	$\theta = 85^\circ$	$\theta = 90^\circ$
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.1	1.1609	1.1609	1.1609	1.1607	1.1606	1.1603	1.1600	1.1597	1.1593	1.1589	1.1586	1.1582	1.1579	1.1575	1.1572	1.1570	1.1568	1.1567	1.1567
0.2	1.3457	1.3456	1.3452	1.3447	1.3439	1.3428	1.3415	1.3400	1.3383	1.3366	1.3348	1.3331	1.3313	1.3297	1.3282	1.3271	1.3262	1.3256	1.3254
0.3	1.5574	1.5571	1.5561	1.5546	1.5525	1.5497	1.5463	1.5426	1.5383	1.5339	1.5293	1.5248	1.5204	1.5162	1.5126	1.5096	1.5074	1.5059	1.5055
0.4	1.7994	1.7988	1.7968	1.7935	1.7891	1.7833	1.7765	1.7689	1.7604	1.7515	1.7425	1.7335	1.7249	1.7169	1.7099	1.7041	1.6997	1.6970	1.6961
0.5	2.0755	2.0743	2.0706	2.0647	2.0565	2.0462	2.0340	2.0204	2.0056	1.9901	1.9745	1.9592	1.9445	1.9311	1.9194	1.9097	1.9024	1.8979	1.8964
0.6	2.3897	2.3877	2.3816	2.3715	2.3578	2.3406	2.3206	2.2984	2.2746	2.2500	2.2255	2.2015	2.1789	2.1583	2.1403	2.1257	2.1145	2.1076	2.1063
0.7	2.7467	2.7434	2.7336	2.7177	2.6959	2.6691	2.6382	2.6042	2.5683	2.5316	2.4952	2.4602	2.4274	2.3977	2.3719	2.3508	2.3351	2.3253	2.3220
0.8	3.1511	3.1461	3.1312	3.1069	3.0740	3.0339	2.9882	2.9386	2.8869	2.8347	2.7835	2.7346	2.6892	2.6484	2.6133	2.5845	2.5632	2.5499	2.5454
0.9	3.6082	3.6009	3.5789	3.5431	3.4952	3.4374	3.3723	3.3026	3.2308	3.1592	3.0898	3.0241	2.9637	2.9098	2.8634	2.8258	2.7979	2.7805	2.7747
1.0	4.1237	4.1131	4.0815	4.0304	3.9625	3.8816	3.7917	3.6966	3.6001	3.5048	3.4135	3.3280	3.2499	3.1807	3.1216	3.0738	3.0383	3.0163	3.0090
1.1	4.7035	4.6886	4.6442	4.5729	4.4790	4.3686	4.2474	4.1211	3.9945	3.8710	3.7540	3.6455	3.5470	3.4605	3.3870	3.3276	3.2838	3.2566	3.2474
1.2	5.3542	5.3335	5.2722	5.1747	5.0476	4.9001	4.7404	4.5711	4.4137	4.2571	4.1104	3.9756	3.8542	3.7483	3.6586	3.5866	3.5334	3.5005	3.4894
1.3	6.082	6.054	5.9710	5.8399	5.6710	5.4776	5.2711	5.0617	4.8573	4.6625	4.4819	4.3175	4.1706	4.0432	3.9360	3.8500	3.7868	3.7477	3.7344
1.4	6.895	6.857	6.746	6.573	6.352	6.102	5.8400	5.5774	5.3244	5.0862	4.8676	4.6703	4.4955	4.3447	4.2183	4.1174	4.0432	3.9974	3.9819
1.5	7.801	7.750	7.604	7.377	7.092	6.775	6.447	6.123	5.8143	5.5273	5.2666	5.0333	4.8281	4.6520	4.5052	4.3883	4.3024	4.2495	4.2315
1.6	8.806	8.740	8.549	8.256	7.894	7.497	7.092	6.697	6.326	5.9849	5.6780	5.4057	5.1678	4.9647	4.7961	4.6622	4.5641	4.5036	4.4830
1.7	9.920	9.834	9.587	9.214	8.759	8.268	7.774	7.299	6.859	6.458	6.101	5.7867	5.5140	5.2823	5.0907	4.9390	4.8279	4.7595	4.7361
1.8	11.151	11.040	10.725	10.254	9.689	9.088	8.492	7.928	7.411	6.946	6.535	6.176	5.8662	5.6045	5.3888	5.2184	5.0936	5.0170	4.9908
1.9	12.507	12.366	11.967	11.380	10.685	9.957	9.246	8.583	7.982	7.447	6.978	6.572	6.224	5.9308	5.6900	5.5001	5.3613	5.2760	5.2468
2.0	13.998	13.819	13.320	12.593	11.746	10.873	10.034	9.262	8.570	7.961	7.431	6.975	6.587	6.261	5.9942	5.7842	5.6307	5.5365	5.5041
2.1	15.632	15.408	14.788	13.895	12.874	11.837	10.855	9.964	9.175	8.486	7.893	7.385	6.955	6.595	6.301	6.070	5.9017	5.7982	5.7627
2.2	17.419	17.141	16.376	15.290	14.067	12.847	11.708	10.688	9.795	9.023	8.362	7.800	7.327	6.932	6.610	6.358	6.174	6.061	6.022
2.3	19.369	19.025	18.089	16.778	15.327	13.902	12.592	11.433	10.429	9.569	8.839	8.220	7.702	7.272	6.922	6.648	6.448	6.325	6.282
2.4	21.489	21.069	19.931	18.361	16.652	15.000	13.504	12.198	11.077	10.125	9.322	8.645	8.081	7.614	7.235	6.938	6.722	6.589	6.543
2.5	23.791	23.280	21.907	20.040	18.041	16.142	14.445	12.982	11.738	10.690	9.810	9.074	8.462	7.957	7.548	7.229	6.996	6.853	6.803