Index by heat conduction number system for three books:

CARSLAW: H. S. Carslaw, J. C. Jaeger, Conduction of Heat in Solids, Cambridge University Press, 1959.

COLE: K. D. Cole, J. V. Beck, A. Haji-Sheikh, B. Litkouhi, Heat Conduction Using Green's Functions, CRC Press, 2011.

LUIKOV: A. V. Luikov, Analytical Heat Diffusion Theory, Academic Press, 1968.

Thanks to Elaine Scott for Carslaw index; Taylor Winkelmann (Kerl) for Luikov index.

Posted by K. D. Cole, July 2017

ver. 3 posted 26Feb2018

ver. 4 corrections 09Sep2024

ver. 5 added 4 cases from Carslaw 22Nov2024

Number	Book	Page	Equation	Description
phi22B10	Cole	262	7.111	Steady with fin losses
phi22B10T0	Cole	262	7.110	Transient with fin losses
R00	Cole	238	7.3	Transient GF, cylindrical case
R0000T0Grt7	Carslaw	258	3	Green's function
R00phi11B00T0Grft7	Carslaw	379	7	Green's function
R00phi11B00T0Grft7	Carslaw	380	9	Green's function,wedge of angle 2?
R00phi11B10T0	Carslaw	420	23	
R00phi11B11T0	Carslaw	420	24	T(r,0,t) = 1, T(r,theta_0,t) = 1
R00phi11B11T0	Carslaw	465	10	T(r,0,t) = T(r,theta_0,t) = 1
R00f22B00T0Grft7	Carslaw	379	8	Green's function
R00Gr7t7T0	Luikov	379	9.5	cylindrical Green's function
R00G-T0	Carslaw	402	20	Steady periodic line source
R00phi11T0G -	Carslaw	379	7	wedge (r,phi) Green's function
R00T	Carslaw	260	11	T(r,0)=F(r)
R00T0G(r7t6)	Carslaw	263	13	Periodic line heat source at r' = 0
R00T0Gr7	Carslaw	261	5	Line- source with constantiable strength
R00T0Grt7	Carslaw	259	5	Green's function
R00T0Gt	Carslaw	261	3	Line source with time variable strength
R00T5	Cole	242	7.16b	Temperature at r = 0
R00ToGrt7	Carslaw	368	1	Green's function
R00Tr5	Carslaw	260	12	T(r,0) = V, 0<r<a; T(r,0) = 0, r > a

R00X00T0Grxt7	Carslaw	260	7	Green's function
R00X11B00phi00	Carslaw	423	5,6	Green's function, steady state
R00X40B0T00Grxt7	Carslaw	375	7	Green's function with type 4 boundary cond. Eq. 2
R00Z(1,2)0B(1,0)	Carslaw	215	5,9	Steady, T(r,0)=T0 for 0<r<a
R00Z(2,1)0B	Carslaw	217	17	
R00Z00C5R00Z0	Carslaw	216	12	Heat transfer only 0<r<a, T=0 at z=00; T=T0 at z=-00; two half spaces in contact
R00Z00T0Grz5t1	Carslaw	266	1	T(0,0,t) for constantant energy generation over 0 < r < a, -b < z < b
R00Z00T0Grz5t1	Carslaw	266	1	T(0,0,t) for constant energy generation over 0 < r < a, -b < z < b
R00Z00T0Gzt7	Carslaw	260	9	Instantaneous disk source, g(r,0,t) = g0(t') for r ' < a at z ' = 0
R00Z20B(r5)	Cole	271	7.133	Steady surface temperature
R00Z20B(r5)T0	Cole	270	7.131	Semi-infinite cylinder
R00Z20B(r5)T0	Cole	272	7.136	Centerline temperature
R00Z20B(r5t6)	Cole	361	9.123	Steady periodic, half space
R00Z20B5	Carslaw	215	7	q=c for 0<r<a
R00Z20B5	Carslaw	216	16	Average temperature
R00Z20B5	Carslaw	462	8	-kdT(r,0)/dz =q0 , 0<r<a, dT(r,0)/dz =0, r>a
R00Z20Br5T0	Carslaw	264	4	T(0,z,t) given for q = constant over 0<r<a
R01	Cole	246	7.40	Transient GF, cylinder
R01B(z-)Z00	Carslaw	209	7	T(a,t)=f(z), Steady state
R01B0phi00T-	Carslaw	211	1	
R01B0phi00Z00T-	Carslaw	212	4	T(r,f,z,0)=F(r,f,z)
R01B0phi00Z00T0Grfzt7	Carslaw	377	6	Green's function with source at (r',f',0)
R01B0phi00Z11B00T0Grfzt7	Carslaw	380	2	Green's function
R01B0phi11B00T-	Carslaw	213	5	T(r,f,0)=F(r,f)
R01B0phi11B00T1	Carslaw	213	6	
R01B0G1	Carslaw	191	17	
R01B0G2	Carslaw	192	27	Linear variation of electrical resistance of wire with temperature
R01B0Gr7t7T0	Luikov	392	9.4.12	Biot large
R01B0phi00T-	Cole	277	7.154	Integral expression
R01B0T-	Luikov	139	4.5.22	General Solution
R01B0T-	Carslaw	198	4	
R01B0T0G-	Carslaw	405	13	g(T)=K(A+BT), t>0

R01B0T0G1	Cole	252	7.66	Standard form
R01B0T0G1	Cole	252	7.67	Improved convergence
R01B0T0G1	Carslaw	204	1	
R01B0T0Grt7	Carslaw	369	5	Green's function
R01B0T0Gt4	Carslaw	204	2	g = a exp(-bt)
R01B0T1	Luikov	139	4.5.25	Specific Solution
R01B0T1	Cole	247	7.43	Solid cylinder
R01B0T1	Carslaw	199	5	
R01B0T1G1	Carslaw	330	24	
R01B0T3	Carslaw	199	7	T(r,0)=V-Kr
R01B0T5	Cole	247	7.44	Piecewise-constant initial condition
R01B0X00phi00	Carslaw	423	7	Green's function, steady state
R01B0X11B00phi00	Carslaw	423	8,9	Green's function, steady state
R01B0Z10B-	Carslaw	222	31	
R01B0Z11B-0	Carslaw	219	14	
R01B0Z11B00phi00T1-	Carslaw	229		middle of pages
R01B0Z11B00F1	Carslaw	224	41	
R01B0Z11B00G*	Carslaw	224	41	g=a(1+bT)
R01B0Z11B00G1	Carslaw	224	38	
R01B0Z11B00T1	Cole	266	7.116	Finite cylinder
R01B0Z11B00T1	Carslaw	225	45	
R01B0Z11B00T1	Carslaw	227	10	
R01B0Z20B01T0	Luikov	466	12.3.8	Semi-Infinite Cylinder
R01B0Z30B0T1	Carslaw	227	12	
R01B0Z33B00T1	Carslaw	227	8	
R01B1T-	Luikov	132	4.5.1-4.5.4	Infinite Cylinder, BVP
R01B1T0	Cole	249	7.54	Standard solution
R01B1T0	Cole	250	7.57	Alternate solution
R01B1T0	Carslaw	199	8	Eq. (10), same page is dimensionless
R01B1T0	Carslaw	328	7	
R01B1T0	Carslaw	331	3	For small values of time, κt/a2<0. 02, r/a not small
R01B1T1	Luikov	142	4.5.36	Solution via Laplace; see Eq 4.5.25

R01B1T1	Luikov	197	5.4.24	Identical Solution to 5.4.5
R01B1X10B0T0-	Carslaw	419	19	
R01B1X11B11T1	Luikov	164	4.8.1-4.8.3	Finite Cylinder, BVP
R01B1X11B11T1	Luikov	165	4.8.6	General Solution
R01B1Z10B0T0	Luikov	466	12.3.5	Semi-Infinite Cylinder
R01B1Z11B00	Cole	283	7.176	Steady, single-sum form
R01B1Z11B11T0	Carslaw	227	6	
R01B2T0	Luikov	312	7.3.5	Bi large
R01B2T0	Carslaw	201	13	T(a,t)=kt
R01B2T0	Carslaw	328	8	
R01B2T1	Luikov	313	7.3.7	small time only, non series form
R01B5phi00	Cole	285	7.182	Steady, piecewise surface temperature
R01B5Z00	Carslaw	209	8	T(a,t)=1, z>0; =0, Z<0; Steady state
R01B5Z00V(z1)	Carslaw	209	11	T(a,t)=1, z>; =0, z<0; Steady state, Velocity = U
R01B6T0	Carslaw	201	14	T(a,t)=Vsin(wt+C)
R01B-phi00Z00	Carslaw	209	6	T(a,t)=f(f,z) Steady state
R01B-T0	Carslaw	201	12	
R01B-Z10B0	Carslaw	222	32	
R01BZ11B00	Cole	282	7.171	Steady, double-sum form
R01B-Z11B00	Carslaw	220	16	
R01B-Z30B0	Carslaw	223	34	
R01B-Z33B00	Carslaw	220	17	
R02B(z5)Z00T0	Cole	268	7.122	Surface temperature
R02B0B0Z22B55	Carslaw	223	35	q=c, 0<r<a at z=0, q=0, a<r<b
R02B0phi00T0Grft7	Carslaw	386	11,12	Continuous source through (f',0)
R02B0G(r5)T0	Cole	253	7.70	Piecewise-constant internal heating
R02B0T-	Carslaw	204	3	
R02B1G1T0	Luikov	375	8.4.26	constant source
R02B1Gr3T0	Luikov	375	8.4.27	parabolic-in-space souce
R02B1G-T0	Luikov	375	8.4.24	
R02B1Gt1T0	Luikov	375	8.4.28	linear-in-time source
R02B1Gt3T0	Luikov	376	8.4.231	time-to-nth-power source

R02B1Gt4T0	Luikov	376	8.4.29	exponential-in-time source
R02B1Gt6T0	Luikov	376	8.4.30	periodic-in-time source
R02B1T0	Cole	251	7.62	Best for small time
R02B1T0	Cole	251	7.64	Spatial average temperature
R02B1T0	Carslaw	203	1	
R02B1T0	Carslaw	329	11	
R02B1T0	Carslaw	331	5	For small values of time, κt/a2<0. 02, r/a not small
R02B1T1	Luikov	192	5.4.5	solid cylinder
R02B1T1	Luikov	194	5.4.7	approx. form for small time
R02B5Z22B00	Carslaw	220	19	f=c, -L+b>z>-L; f=-c, L>z>L-b, f=0 otherwise
R02B-G-T-	Luikov	374	8.4.20	w=(x,t)
R02B-G-T-	Luikov	374	8.2.21	Dimensionless Form
R02B-phi22T0	Cole	279	7.160	Cylindrical sector
R02B-T-	Luikov	197	5.4.22	q(tau) at boundary; arbitrary initial cond.
R02B-Z21B01G-T1	Luikov	469	12.4.12	Asymetrical Cylinder
R03B00Gr7t7T0	Luikov	393	9.4.15	Alternate expression
R03B04T0	Luikov	317	7.4.15	
R03B04T0	Luikov	320	7.5.15	
R03B06T0	Luikov	336	7.6.35	Infinite Cylinder
R03B0phi00T-	Carslaw	211	2	T(r,f,0)=F(r,f)
R03B0phi00Z00T0Grfzt7	Carslaw	378	7	Green's function with source at (r',f',0)
R03B0G(x1t6)	Cole	343	9.49	Steady periodic, internal heating
R03B0G1	Cole	281	7.164	Steady, uniform internal heating
R03B0G1	Carslaw	191	18	
R03B0G1T0	Luikov	371	8.4.3	Infinite Cylinder, w=const.
R03B0G5	Cole	281	7.166	Steady, piecewise internal heating
R03B0Gr7t7T0	Luikov	391	9.4.1-9.4.4	Infinite Cylinder, BVP
R03B0Gr7t7T0	Luikov	393	9.4.13	
R03B0T-	Luikov	393	9.4.14	Equivalent Solution to 6.6.15
R03B0T-	Carslaw	201	3	
R03B0T0G1	Carslaw	205	3	
R03B0T0Grt7	Carslaw	369	7	Green's function

R03B0T1	Luikov	265	6.6.1-6.6.3	cylinder, BVP
R03B0T1	Cole	248	7.50	Cylinder, suddenly quenched
R03B0T1	Carslaw	202	4	
R03B0X10B1T0-	Carslaw	419	17	
R03B0X11B10T0-	Carslaw	418	13	
R03B0X13B10T0-	Carslaw	418	14	
R03B0Z10B-	Carslaw	223	33	
R03B0Z10B0T1	Carslaw	227	11	
R03B0Z11B-0	Carslaw	219	8,9	
R03B0Z11B00G-T1	Luikov	472	12.4.21	finite cylinder, type 1 bases
R03B0Z11B00phi00G(r7phi5t6)	Cole	364	9.145	Model of hotfilm sensor
R03B0Z11B00phi00G(r7phi5t6)	Cole	365	9.150	Alternate form
R03B0Z11B10	Carslaw	219	10	
R03B0Z13B-0	Carslaw	219	13	
R03B0Z21B00G-T1	Luikov	470	12.4.16	B.C of the 3rd Kind
R03B0Z22B00G-T1	Luikov	471	12.4.20	finite cylinder, insulated bases
R03B0Z23B60	Cole	358	9.107	Steady periodic, eigenfunctions along z
R03B0Z23B60	Cole	358	9.113	Steady periodic, eigenfunctions along r
R03B0Z33B00T1	Carslaw	227	7	
R03B1G4T1	Luikov	372	8.4.5	w=exp(-kτ)
R03B1T-	Luikov	270	6.6.15	General Solution
R03B1T0	Carslaw	202	8	Fluid at V
R03B1T0	Carslaw	329	15	
R03B1T0	Carslaw	331	6	For small values of time, κt/a2<0. 02, r/a not small
R03B1T1	Luikov	270	6.6.17	Specific Solution
R03B1T1	Luikov	279	6.6.31	large time only
R03B1Z23B01T1	Luikov	284	6.8.1-6.8.6	Finite Cylinder, BVP
R03B1Z23B01T1	Luikov	286	6.8.18	Mean Temperature
R03B2T0	Luikov	312	7.3.4	cyllinder, linear-in-time fluid temp.
R03B2T0	Carslaw	202	10	Fluid at kt
R03B6T0	Carslaw	202	11	Fluid at V sin(wt+e)
R03B-Z21B--G-T-	Luikov	477	12.4.45	asymmetric cylinder

R03ZI0	Cole	360	9.120	Steady periodic GF, I = 0, 1, 2, 3, 4, 5.
R05B0T(00)Grt7	Carslaw	370	9	Green's function
R05B0T(10)	Carslaw	330	20	
R0C10B1Gr5T00	Luikov	433	10.8.17-10.8.18	With Heat Source
R0C10B1T10	Luikov	431	10.8.1-10.8.6	Infinite Cylinder
R0C10B1T10	Luikov	432	10.8.10-10.8.11	General Solution
R0C10Gr5T00	Carslaw	347	13,14	
R0C10T(10)	Carslaw	346	7,8	
R0C11B0Z11B00Gr5	Carslaw	221	25	Steady; composite source wire with volumetric energy
R0C11B1T11	Luikov	422	10.5.10	
R0C13B0Gr5T0	Carslaw	192	22,23	Insulated wire with energy generation and convection loss
R0C13B1T11	Luikov	421	10.5.1-10.5.5	Two Cylindrical Bodies
R0C13B1T11	Luikov	421	10.5.6-10.5.7	General Solution
R10B0phi00G - T0	Carslaw	378	8	Green's function
R10B0Z10B0T1	Carslaw	339	21	Product solution
R10B1T0	Cole	258	7.95	Infinite body with cylindrical hole
R10B1T0	Carslaw	335	6	
R10B1T0	Carslaw	336	7	For small values of time, κt/a2<0.02, r/a not large
R10B6T0	Carslaw	339	20	
R11B00phi00Z11B00G - T0	Carslaw	380	3	Green's function
R11B00T-	Luikov	152	4.6.25	Infinite Hollow Cylinder
R11B00T-	Carslaw	207	12	
R11B00T1	Cole	256	7.78	Hollow cylinder
R11B00T1	Carslaw	207	13	
R11B00Z11B-0	Carslaw	222	28	
R11B-0Z11B00	Carslaw	220	20	
R11B11	Luikov	153	4.6.35	steady state
R11B11	Carslaw	189	3	T(a)=T1 T(b)=T2 a<r<b , steady state
R11B11T-	Luikov	155	4.6.39	General Solution
R11B11T1	Luikov	156	4.6.43	Specific Solution
R12B10T1	Luikov	158	4.6.47-4.6.49	Insulated Cylindrical Tube, BVP
R12B10T1	Luikov	160	4.6.69	Insulated Cylindrical Tube

R12F0B10	Carslaw	143	20	Circular fin
R12F0B10	Carslaw	143	27	z=D/r*r
R13B11	Carslaw	189	5	Steady state
R13B-OZ33B00	Carslaw	222	29	
R1B11T-	Carslaw	207	15	T(a,t)=T1 T(B,t)=T2
R20B1T0	Carslaw	338	17	
R20B1T0	Carslaw	339	18	For small values of time, κt/a2<0.02, r/a not large
R20B1T0	Carslaw	341	11	For large values of time, κt/a2
R20B-T0	Cole	259	7.99	Surface temp. at small time
R20B-T0	Cole	259	7.100	Surface temp. at large time
R21B00G2	Carslaw	192	28	Linear variation of electrical resistance of wire with temperature
R21B00T-	Cole	257	7.91	Initially steady case R21B10
R21B00Z11B	Carslaw	224	40	
R21B0-Z11B00	Carslaw	224	39	
R21B-0Z11B00	Carslaw	221	22	
R21B10	Cole	256	7.83	Steady, hollow cylinder
R21B10T0	Carslaw	334	12	
R21B50Z11B00	Carslaw	221	24	
R22B01T1	Luikov	200	5.5.20	
R22B--T-	Luikov	199	5.5.16	hollow cylinder
R23B02T0	Cole	399	10.111	from Galerkin-based GF
R30B0T0Grt7	Carslaw	370	12	Green's function
R30B0T1	Carslaw	337	15	
R33B00T0Grt7	Carslaw	370	11	Green's function
R33B00Z23B01G-T1	Luikov	473	12.4.28	General Solution
R33B11T-	Luikov	283	6.7.10	Specific Solution
R33B11T0	Carslaw	333	10	
R33B--T0	Luikov	350	7.9.13	time-varying fluid temp
R40B0T(10)	Carslaw	342	3	
R40B0T-10	Carslaw	342	5	Solution for 0<r<a, which is independent of r
R40B1T(00)	Carslaw	342	7	Interior cylinder has constant energy generation
R41B0T(11)	Carslaw	350	24	

R41B1T(00)	Carslaw	350	27	
R50B0T(10)	Carslaw	344	9,11	Temperature at r=0
R50B0T(10)	Carslaw	350	21	Temperature at 0<r<a
R50B0T(10)	Carslaw	350	22	Temperature at 0<r<a, small time solution
R50B0T(10)	Carslaw	350	23	Temperature at 0<r<a, large time solution
R50B1T(00)	Carslaw	344	13,14	Temperature at r=0
R50B1T(00)	Carslaw	345	16,17	Temperature at r=0, small times
R50B1T(00)	Carslaw	345	16,17	Temperature at r=0, large times
RF--0	Carslaw	143	24	Circular fin, variable thickness, z=D/r
RS00	Cole	135	4.157	Steady point source
RS00	Cole	141	4.188	Steady point source
RS00	Cole	292	8.4	Transient GF, spherical coordinates
RS00	Cole	293	8.6	Transient point source at origin
RS00f00q01B0T0Grfqt7	Carslaw	385	11	Green's function for a point source in spheres (r,q,f) coordinates
RS00f01B0T0Grft7	Carslaw	384	7	Green's function for a point source at origin of- cone
RS00f01B1T0	Carslaw	420	25	
RS00Gr7t7T0	Luikov	380	9.6	Spherical Green's function
RS00G-T0	Carslaw	402	17	Steady periodic point source
RS00Q11B00L00T-	Carslaw	252	12	
RS00T0G(r7t-)	Carslaw	263	10	Arbitrary time variable spherical source
RS00T0G(r7t1)	Carslaw	263	11	Constant spherical source
RS00T0G(r7t6)	Carslaw	263	12	Periodic point heat source at r' = 0
RS00T0Gr5	Carslaw	349	13,14	
RS00T0Gr7	Carslaw	261	2	Point source at r = 0
RS00T0Grt7	Carslaw	257	7b	Greens's function for source at r = 0
RS00T0Grt7	Carslaw	259	6	Green's function
RS00T0Grt7	Carslaw	366	1	Green's function sphere
RS00Tr5	Carslaw	257	6	T(r,0) = V, 0<r<a, T(r,0) = 0 for r>a
RS00Tr5	Carslaw	257	7	Small a
RS01	Cole	306	8.61	Transient GF, solid sphere
RS01B0f00T0Grft7	Carslaw	382	8	Green's function for a point source at sphere origin-
RS01B0G1	Carslaw	232	12	Steady state

RS01B0Gr7t7T0	Luikov	390	9.3.14	Biot large
RS01B0T-	Luikov	123	4.4.16	General Solution
RS01B0T-	Carslaw	237	21	FOR SMALL VALUE OF kt/(A*A)
RS01B0T0G1	Carslaw	243	6,7	EQ7 FOR SMALL VALUE OF kt/A*A
RS01B0T0GGR7	Carslaw	244	13	G(R)=GOexp(R-A)
RS01B0T0GR-	Carslaw	245	17	G=G(R)
RS01B0T0GR2	Carslaw	243	8,9	G(R)=GO(A-R)/A
RS01B0T0GR3	Carslaw	243	10,	G(R)=GO(A*A-R*R)/G*G TWO FORMS OF SOLUTION
RS01B0T0Grt7	Carslaw	366	7,9	Green's function, two forms of solution
RS01B0T0GT5	Carslaw	245	16	G(T)=<0 0<r<B, GOexp(-C*T) B<r<A!
RS01B0T0GT7	Carslaw	245	14,	G(T)=GOexp(-A*T) TWO FORM OF SOL
RS01B0T1	Luikov	123	4.4.17	Uniform Temp Distribution
RS01B0T1	Cole	307	8.65	Large-time form
RS01B0T1	Carslaw	348	6	
RS01B0T2	Carslaw	235	13,	T(r,0)=V(A-R)/A , 0<r<A
RS01B0T3	Carslaw	236	15	T(r,0)=V(A*A-R*R)/A*A 0<r<A
RS01B0T3	Carslaw	237	23	T(r,0)=BO+B1*R+B2*R**2+B3*R**3
RS01B0T5	Carslaw	236	19,	T(r,0)=<V 0<r<B, 0 B<r<A! TWO FORMS OF SOLUTION
RS01B0T6	Carslaw	236	17	T(r,0)=(V/R)*sin(pi*R/A) 0<r<A
RS01B0T7	Carslaw	236	18	T(r,0)=Vexp(C(R-A)) 0<r<A
RS01B0TGR6	Carslaw	244	12	G(R)=(GO/R)sin(pi*R/A)
RS01B1T-	Luikov	120	4.4.1-4.4.4	Sphere, BVP
RS01B1T0	Carslaw	233	4,5	TWO FORMS OF SOLUTION
RS01B1T1	Luikov	123	4.4.18	Non-Zero BC
RS01B1T1	Luikov	125	4.4.32	Solution via Laplace; see Eq. 4.4.18
RS01B1T1	Luikov	126	4.4.34	best for small time
RS01B2T0	Luikov	308	7.2.13	Large Biot gives type 1 boundary
RS01B2T0	Luikov	309	7.2.16	small-time form
RS01B2T0	Luikov	309	7.2.17	center of sphere only
RS01B2T0	Carslaw	235	10	T(a,t)=kt 0<r<A
RS01B6T0	Carslaw	235	12	T(a,t)=sin(wt+e) 0<r<A
RS01B-Gt3T0	Luikov	367	8.3.10	polynomial-in-time source

RS01B-Q00L00	Carslaw	250	4	T(A,Q,L,t)=F(Q,L)
RS01B-T-	Carslaw	233	3	
RS02	Cole	309	8.72	Transient GF, solid sphere
RS02B0G(r2)T0	Cole	316	8.94	Linear-in-radius heating
RS02B0G(r4)T0	Cole	318	8.103	Exponential-in-radius heating
RS02B0G(r6)T0	Cole	319	8.110	Sinusoidal-in-radius heating
RS02B0G(t4)T0	Cole	318	8.105	Exponential-in-time heating
RS02B0G1T0	Cole	316	8.91	Uniform heating
RS02B1G1T0	Luikov	370	8.3.27	
RS02B1Gr2T0	Luikov	370	8.3.28	linear-in-space source
RS02B1Gr3T0	Luikov	370	8.3.29	parabolic-in-space souce
RS02B1Gr4T0	Luikov	370	8.3.30	exponential-in-space source
RS02B1G-T0	Luikov	369	8.3.25	specific solution
RS02B1Gt2T0	Luikov	370	8.3.31	linear-in-time source
RS02B1Gt3T0	Luikov	371	8.3.34	time-to-nth-power source
RS02B1Gt4T0	Luikov	371	8.3.32	exponential-in-time source
RS02B1Gt6T0	Luikov	371	8.3.33	periodic-in-time source
RS02B1T0	Carslaw	242	1	
RS02B1T1	Luikov	185	5.3.9	solid sphere, via Laplace transform
RS02B1T1	Luikov	185	5.3.10	solid sphere, dimensionless form
RS02B1T1	Luikov	186	5.3.13	approx. form for small time
RS02B1T1	Cole	310	8.76	Constant surface heat flux
RS02B2T0	Cole	310	8.78	Linear-in-time surface heat flux
RS02B-G-T-	Luikov	368	8.3.21	w=(x,t)
RS02B-G-T-	Luikov	369	8.3.22	Dimensionless form
RS02B-T-	Luikov	190	5.3.32	General case
RS03	Cole	328	8.142	Steady GF
RS03	Cole	300	8.40	Transient GF, sphere
RS03B04T0	Luikov	317	7.4.13	exponential-in-time fluid temp.
RS03B04T0	Luikov	320	7.5.14	
RS03B06T0	Luikov	335	7.6.32	Sphere
RS03B0f00Grft7	Carslaw	382	11	Green's function for a point source at sphere origin----------

RS03B0G1	Cole	328	8.144	Steady, sphere
RS03B0G1	Carslaw	232	13	Steady state
RS03B0G4	Cole	329	8.146	Steady, spatially-varying heating
RS03B0Gr7t7T0	Luikov	388	9.3.1-9.3.5	BVP
RS03B0Gr7t7T0	Luikov	390	9.3.15	General solution
RS03B0Gr7t7T0	Luikov	391	9.3.20	Heat Source at Center
RS03B0T-	Luikov	390	9.3.18	Similar Solution to 6.5.19
RS03B0T-	Carslaw	237	8	
RS03B0T0Grt7	Carslaw	367	10	Green's function
RS03B0T1	Luikov	259	6.5.34	large time only, one term of series
RS03B0T1	Luikov	261	6.5.41	small time only
RS03B0T1	Carslaw	238	10	
RS03B1T-	Luikov	247	6.5.1-6.5.4	Sphere, BVP
RS03B1T-	Luikov	252	6.5.19	General Solution
RS03B1T0	Cole	312	8.82	Small-time form
RS03B1T0	Cole	313	8.85	Large-time form
RS03B1T1	Luikov	253	6.5.20	Specific solution
RS03B1T1	Luikov	255	6.5.28	Solution via Laplace; see Eq. 6.5.20
RS03B1T3	Carslaw	245	19	
RS03B1T3	Carslaw	246	20B	
RS03B2T0	Luikov	308	7.2.12	sphere; linear-in-time fluid temp
RS03B2T0	Carslaw	238	11	VO=kt
RS03B6T0	Carslaw	238	12	VO=Vsin(wt+e)
RS03B-G1T0	Luikov	366	8.3.7	constant source
RS03B-G1T1	Luikov	365	8.3.1-8.3.4	Sphere with source, BVP
RS03B-Gt4T0	Luikov	366	8.3.9	exponential-in-time source
RS04B0T-0	Carslaw	240	2	-4*pi*A*A*K*DV/DR=M'C'DU/DT, R=A
RS04B0T10	Carslaw	240	5	sphere in contact with well-stirred fluid
RS05B0T10	Carslaw	241	8	well-stirred fluid losing heat to surroundings
RS0C10B1T10	Luikov	428	10.7.1-10.7.6	Sphere, BVP
RS0C10B1T10	Luikov	429	10.7.15-10.7.16	General solution
RS0C11B0T11	Carslaw	352	39,40	Additional terms in eqs. 43,44 may be needed

RS0C11B0T11	Luikov	418	10.4.1-10.4.5	Two spherical bodies, BVP
RS0C11B0T11	Luikov	419	10.4.9-10.4.11	General solution
RS0GC3RS0	Carslaw	232	14B	Steady state.MATL1 0<r<A, MATL2 R>
RS10	Cole	325	8.130	Transient GF, large body with void
RS10B0f00Grft7	Carslaw	382	13	Green's function for a point source at (r',0,0)
RS10B0G(r5)T0	Cole	326	8.133	Spatially-varying heating
RS10B1	Carslaw	232	14	Steady state
RS10B1T0	Carslaw	247	2	
RS10B-T-	Carslaw	247	1	
RS11	Cole	327	8.138	Steady GF
RS11B10	Cole	328	8.140	Steady, hollow sphere
RS11B10T0	Cole	322	8.122	Standard solution
RS11B10T0	Cole	322	8.123	Recommended alternate solution
RS11B11T-	Carslaw	246	1	
RS12B01T0	Carslaw	247	3	
RS13B11	Carslaw	231	4	Steady state
RS20	Cole	324	8.125	Transient GF, large body with void
RS20B1T0	Cole	324	8.127	Uniform surface flux
RS20B1T0	Carslaw	248	4	
RS21	Cole	327	8.135	Steady GF, hollow sphere
RS21	Cole	320	8.113	Transient GF, hollow sphere
RS21B10	Cole	327	8.136	Steady, hollow sphere
RS21B10T0	Cole	320	8.116	Standard solution
RS21B10T0	Cole	321	8.118	Recommended alternate solution
RS30	Cole	112	4.40	Transient GF, large body with void
RS30B0f00T0Grft7	Carslaw	382	14	Green's function for a point source at (r',0,0)
RS30B0T0Grt7	Carslaw	368	16	Green's function
RS30B1T0	Carslaw	248	3	
RS33	Cole	302	8.54	Transient GF, hollow sphere
RS33B00T-	Carslaw	246	2	
RS33B00T0Grt7	Carslaw	367	13	Green's function
RS33B11	Carslaw	231	5	Steady state

RS40B6	Cole	345	9.55	Steady periodic, boundary is lumped
RS41B00T11	Carslaw	350	26	
RS41B10T00	Carslaw	350	27	
RS50B1T00	Carslaw	349	18	
RS50B1T00	Carslaw	350	19	Solution for small times, 0<r<a
RS50B1T00	Carslaw	350	20	Solution for large times, 0<r<a
RS60B0T10	Carslaw	350	23	type 6 boundary is thermal storage and contact resistance
X00	Cole	21	1.72	Transient GF, infinite body
X00	Cole	23	1.75	Fundamental heat conduction solution
X00F0T0Gxt7	Carslaw	257	9	Green's function for rod losing heat to surroundings (fin)
X00F0Y00F0TOGxyt7	Carslaw	258	10	Green's function for sheet fin with source at origin
X00G(x7t1)	Carslaw	263	9	Constant plane heat source at x'
X00Gx7t7T0	Luikov	379	9.4	planar Green's function
X00T-	Luikov	82	4.1.1-4.1.3	Infinite Body, BVP
X00T-	Luikov	85	4.1.7	General Solution
X00T-	Carslaw	53	1	For conditions on f(x), see p.54, C&J
X00T-	Carslaw	54	2	Same as no. 1 which is preferred.
X00T0G(x7t-)	Carslaw	262	8	Time variable plane heat source at x'
X00T0G(x7t1)	Cole	28	1.89	Example 1.3, plane source
X00T0Gxt7	Carslaw	259	4	Green's function
X00T0Gxt7	Carslaw	358	3	Green's function
X00T2	Carslaw	54	5	F(x)=0, abs(x)>a; F(x)=V(a-x)/a, see C&J
X00T5	Cole	25	1.79	Example 1.1, one piecewise segment
X00T5	Cole	26	1.83	Example 1.2, two piecewise segments
X00T5	Carslaw	54	3	F(x)=V, -a<x<a; F(x)=0, abs(x)>a
X00T5	Carslaw	54	4	F(x)=0, -a<x<a; F(x)=V, abs(x)>a
X00T5	Carslaw	61	12	F(x)=0, x<0 ;T=V, x>0
X00Y00T-	Luikov	85	4.1.8	2D General Solution
X00Y00T0Gxyt7	Carslaw	258	1	Green's function
X00Y00Z00GDX7T0	Carslaw	271	6	Continuous plane doublet
X00Y00Z00T-	Luikov	85	4.1.9	3D General Solution
X00Y00Z00T0GDX7T0	Carslaw	271	5	Instantaneous plane doublet

X00Y00Z00T0GDX7Y7T0	Carslaw	271	4	Instantaneous line doublet
X00Y00Z00T0Gxyzt7	Carslaw	256	2	Green's function
X00Y00Z00T0Gxyzt7	Carslaw	257	8	Anisotropic material, different conductivities in x,y and z
X00Y00Z00T0Gxyzt7	Carslaw	261	1	
X00Y00Z00T0Gxyzt7	Carslaw	371	1	Green's function
X00Y00Z00T0Ux1G(xyz7t1)	Carslaw	267	1	Moving point heat source (or moving medium about a fixed point heat source at origin
X00Y00Z00Ux1Gxyz7	Carslaw	267	1	Steady solution for moving point heat source
X00Y00Z00VX1GPX7Y3Z0T1	Carslaw	269	10	For s.s along strip, -B<x<B, -OO<Y<OO, Z=0
X00Y00Z0CZ0T0Gt7	Carslaw	376	5,6	Green's function source at (0,0,z') for z=0
X00Y00Z11B00T0Gxyzt7	Carslaw	373	12,15	Two forms of Green's function
X00Y00Z20B(xy5)	Carslaw	265	6,7	Maximum and average heated surface temperatures, rectangular heat source
X00Y00Z22B00T0Gxyzt7	Carslaw	374	18,19	Two forms of Green's function
X00Y00Z22B00UX1GPX0	Carslaw	268	7	
X00Y00Z22B00VX1GPX0Y3Z0T1	Carslaw	268	8	Heat emitted during time period (0,t), THEN t-∞.Approach OO for s.s. at y-axis
X00Y00Z33B00T0Gxyzt7	Carslaw	373	17	Green's function
X00Y20B5T0	Cole	219	6.143	Heated over half of surface
X00Y20B5T0	Cole	219	6.144	Surface temperature only, half is heated
X00Y20B5T0	Cole	224	6.161	Surface temperature only, strip is heated
X00Y21	Cole	227	6.170	Steady GF, 2D
X00Y21B(x5)0	Cole	227	6.172	Steady, strip heater
X00Y23B00G(x5y7t6)	Cole	351	9.77	Steady periodic, heated strip
X00Y23B00G(x5y7t6)	Cole	352	9.80	Steady periodic, alternative form
X00YI0	Cole	352	9.81	Steady periodic GF, I = 1, 2, 3, 4, 5.
X00Z00Ux1Gxy7	Carslaw	267	3	Steady solution for moving line heat source
X00Z20Bx5T0	Carslaw	264	1	T(x,0,t) given for q = constant over x<0
X00Z20Bx5T0	Carslaw	264	3	T(x,0,t) given for q = constant over -a<x<a
X0C10Gx7T00	Luikov	406	10.1.29-10.1.30	Constant Heat Source at Interface
X0C10Gx7T00	Luikov	406	10.1.31-10.1.32	Dimensionless Form
X0C10Gx7t-T--	Luikov	404	10.1.19, 10.1.20	heat source at interface
X0C10T--	Luikov	401	10.1.1-10.1.6	two semi-Infinite bodies in contact, BVP
X0C10T01	Luikov	402	10.1.12-10.1.13	two semi-Infinite bodies in contact
X0C10T11	Luikov	402	10.1.12a-10.1.13a	two semi-Infinite bodies in contact

X0C3X0T0Gxt7	Carslaw	364	11,12	Green's function, imperfect contact
X0CX0T0Gxt7	Carslaw	364	8,9	Green's function for composite
X0CX0Y11B05	Carslaw	428	22,23	
X0T0C2X0T0	Carslaw	88	9,10	Composite, heat flux at x=0
X0T1C3X0T0	Carslaw	89	12	Composite, resistance at x=0
X0T1CX0T0	Carslaw	88	5,6	Composite, F(x)=V, x>0; F(x)=0,X>0
X10	Cole	31	1.101c	Transient GF, semi-infinite body
X10B00G1T1	Luikov	352	8.1.1-8.1.4	Semi-Inf. Body w/ Const. Heat Source, BVP
X10B00G1T1	Luikov	353	8.1.12	uniform source
X10B00G3T1	Luikov	355	8.1.24	time-to-power-n/2 source
X10B00G4T	Luikov	355	8.1.21	exponential-in-time source
X10B0G(t3)T0	Cole	191	6.34a	Generation varying as t^(n/2)
X10B0Gx7t7T0	Luikov	384	9.1.20	Biot large
X10B0T-	Carslaw	59	2	Same as C&J, p.59,(1), which is preffered
X10B0T-	Carslaw	274	1	Source at the plane X'
X10B0T(1,2)G1	Carslaw	79	2	F(x)=a+bx
X10B0T(1,2)Gx4	Carslaw	79	3	F(x)=a+bx, g(x)=a exp(-nx)
X10B0T(1,2)Gx5	Carslaw	79	4,5	F(x)=a+bx; g(x)=a, 0<x<L<B
X10B0T0Gt4	Carslaw	80	12	g(x)=a exp(-kt)
X10B0T0Gx5	Carslaw	308	28	
X10B0T0Gxt7	Carslaw	357	1	Green's function
X10B0T1	Luikov	89	4.2.5	t(x,0)=f(x)=constant
X10B0T1	Luikov	91	4.2.13	Solution via Sep. of Var.
X10B0T1	Cole	34	1.109	Example 1.4
X10B0T1	Carslaw	59	3	
X10B0T2	Carslaw	61	13	F(x)=V+kx
X10B0T5	Cole	184	6.7	I = 1 for type 1 boundary
X10B0T5	Carslaw	62	14	F(x)=V, 0<x<d;T=0 x>0
X10B0T5	Carslaw	62	15	F(x)=V, a<x<b;T=0, 0<x<a, x>b
X10B0U1T1	Cole	95	3.134	Moving body, velocity V
X10B0Y00T0Gxy7	Carslaw	262	7	Constant line source in semi-infinite body with isothermal surface
X10B0Y00Z00T0Gxyxt7-	Carslaw	370	1	Green's function

X10B0Y10B0T0Gxt7	Carslaw	361	2	Green's function
X10B0Y10B0T1	Carslaw	171	2	
X10B0Y10B0Z10B0T1	Carslaw	184	1	
X10B10F1	Luikov	211	6.2.16	steady fin
X10B10F1T0	Luikov	210	6.2.12	General Solution
X10B10F1T0	Luikov	211	6.2.14	dimensionless form
X10B10F1T0	Luikov	212	6.2.18	heat flux at x=0
X10B11F1T1	Luikov	209	6.2.1-6.2.5	Semi Infinite Fin, BVP
X10B1T-	Luikov	87	4.2.1-4.2.3	Semi-Infinite Body, BVP
X10B1T-	Luikov	88	4.2.4	General Solution
X10B1T0	Luikov	295	6.1.12	from X30 with large Biot number
X10B1T0	Luikov	343	7.7.11	Biot large
X10B1T0	Luikov	344	7.7.14	Constant Surface Temperature
X10B1T0	Cole	107	4.13	by Laplace transform
X10B1T0	Cole	35	1.112	Example 1.5
X10B1T0	Cole	186	6.16	Constant boundary temperature
X10B1T0	Carslaw	60	10	
X10B1T0	Carslaw	305	5	
X10B1T0	Carslaw	413	12	Space variable conductivity, k = k0xn
X10B1T1	Luikov	89	4.2.6	Non-Zero BC
X10B1T1	Luikov	91	4.2.16	Solution via Sep. of Var.
X10B1T1	Luikov	93	4.2.22	Solution via Fourier Transform
X10B1T1	Luikov	93	4.2.23	Heat flux at surface
X10B1Y23B00Z23B00	Carslaw	180	29	Steady state 0<y<b, 0<z<c
X10B1Y33B00Z33B00	Carslaw	180	29	Steady state -b<y<b, -c<z<c
X10B2T0	Carslaw	63	4,5	f(t)=kt, two expressions
X10B2T2G1V1	Carslaw	388	7	F(x)=To +Ax, T(0,t)=T1 +bt
X10B3T0	Cole	187	6.20	Boundary varying as t^(n/2)
X10B3T0	Carslaw	63	6,7	f(t)=sqrt(kt)
X10B3T0	Carslaw	63	8	f(t)=sqrt(t**n)
X10B3T0	Carslaw	305	6	T(0,t)=V0 t^(n/2); n = any positive integer
X10B4T0	Carslaw	64	9	f(t)=exp(nt)

X10B5T	Carslaw	68	20	steady state periodic
X10B5T0	Carslaw	63	2,3	f(t)=V0, 0<t<ta; f(t)=V1, t>ta
X10B6T	Carslaw	65	8	f(t)=a cos(wt-e), steady st. periodic
X10B6T	Carslaw	68	18	f(t)=a0+a1 cos(wte1), st. st. periodic
X10B6T0	Carslaw	64	1,2	f(t)=a cos(wt-e)
X10B6T0	Carslaw	319	8	T(0,t) = Vsin(ωt+e)
X10B6V1	Carslaw	389	14	Steady periodic, constant velocity
X10BOT-	Carslaw	59	1	
X10B-T0	Luikov	344	7.7.13	
X10B-T0	Carslaw	63	1	
X10B-T0	Carslaw	305	7	
X10B-T0Gx-	Carslaw	357	2	Green's function solution for arbitrary conditions
X10B-Y00	Carslaw	166	20	
X10Byzt-Y00Z00Txyz-	Carslaw	371	3	Green's function solution, arbitrary conditions
X10F0B1	Carslaw	135	1	Steady state
X10F0B1T0	Carslaw	135	7	
X10F0B1V1	Carslaw	148	4	Steady state fin
X11	Cole	119	4.90	Transient GF, large-cotime form
X11B00F1T1	Cole	86	3.88	Transient with fin losses
X11B00G(x7)	Cole	200	6.66	Steady, plane source
X11B00G(x7t1)T0	Cole	200	6.68	Transient, plane source
X11B00Gx-	Carslaw	132	10b	-L<x<L Steady state
X11B00Gx7t7T0	Luikov	388	9.2.15	Non-Symmetric Solution
X11B00T-	Carslaw	94	4,5	0<x<L
X11B00T-	Carslaw	274	2	Alternating source-sinks, sink at -X'+2NA, sourse at X'+2NA
X11B00T0G1	Carslaw	130	7	-L<x<L
X11B00T0G3	Carslaw	131	8	-L<x<L, g=at**n/2, n=-1,0,1,2,...
X11B00T0Gt-	Carslaw	131	9	-L<x<L
X11B00T0Gt3	Carslaw	311	12	g(t)=k0 t^(n/2), n = -1, 0, and any positive integer
X11B00T0Gt4	Carslaw	132	14	-L<x<L, g(t)=a exp(-bt)
X11B00T0Gt4	Carslaw	315	20	g(t) = a exp(-ct)
X11B00T0Gx-	Carslaw	132	10a	-L<x<L

X11B00T0Gxt7	Carslaw	360	2	Green's function
X11B00T1	Luikov	106	4.3.27	best for small time
X11B00T1	Cole	194	6.43	Small-time form
X11B00T1	Cole	198	6.59a	Large-time form
X11B00T1	Cole	375	10.23	One-term of series
X11B00T1	Cole	378	10.30	From polynomial basis functions
X11B00T1	Carslaw	96	6	0<x<L
X11B00T1	Carslaw	97	8,9	#NAME?
X11B00T2	Carslaw	96	7	F(x)=kx, 0<x<L
X11B00T2	Carslaw	97	14,15	F(x)=V(L-abs(x))/L, -L<x<L
X11B00T3	Carslaw	98	16,17	F(x)=V(L^2-X^2)/L^2, -L<x<L
X11B00T5	Cole	198	6.56	J = 1 for type 1 at x=L
X11B00T6	Carslaw	99	18	F(x)=V cos(x/2L), -L<x<L
X11B00Y10B0T1	Carslaw	173	8	-L<x<L
X11B00Y10B1	Carslaw	164	11	Steady state, 2-D
X11B00Y11B-0-	Carslaw	464		
X11B00Y11B00G1	Carslaw	171	6	
X11B00Y11B00T0Gxt7	Carslaw	361	3	Green's function
X11B00Y11B00T1	Carslaw	173	11	
X11B00Y11B00Z11B00T-	Carslaw	187	5	Initial Temp = F(x,y,z)
X11B00Y11B00Z11B00T-	Carslaw	362	2	Green's function solution for arbitrary initial T
X11B00Y11B00Z11B00T0G-	Carslaw	363	4	Green's function solution for arbitrary source
X11B00Y11B00Z11B00T0G1	Carslaw	363	5	Green's function solution for constant source
X11B00Y11B00Z11B00T1	Carslaw	184	5	or eq. 6 and 7
X11B00Y11B00Z1ZB0T1	Carslaw	184	3,4	
X11B00Y11B-0F0	Carslaw	170	10	
X11B00Y11B10	Carslaw	167	10	
X11B00Y21B(x5)0	Cole	226	6.166	Steady, step in wall heating
X11B00Y21B(x5)0T0	Cole	215	6.129	Best for large time
X11B00Y21B(x5)0T0	Cole	216	6.133	for small y and x near a_1
X11B00Y30B0T1	Carslaw	173	10	-L<x<L
X11B01F0T0V1	Carslaw	391	3	

X11B01T0	Luikov	107	4.3.46	best for small time
X11B01T0	Carslaw	310	6	best for small dimensionless times
X11B01T0	Carslaw	313	10	
X11B01Y10B0T0	Luikov	461	12.1.1-12.1.2	Semi-Infinite Plate, BVP
X11B01Y10B0T0	Luikov	463	12.1.13	Semi-Infinite Plate
X11B05T	Carslaw	108	15,17	Steady periodic
X11B05T0	Carslaw	400	6	
X11B06T0	Cole	391	10.83	from Galerkin-based GF
X11B06T0	Cole	391	10.84	Exact solution
X11B06T0	Cole	80	3.67	Standard solution
X11B06T0	Cole	82	3.72	Alternate solution
X11B06T0	Carslaw	105	5,6	T(L,t)=sin(wt+e) 0<x<L
X11B0-T0	Carslaw	401	10,12	Steady periodic square wave
X11B-0T0GDX6T-	Carslaw	276	6	Doublet at 2NA N=0, 1,2,G*P(T)=2K*
X11B-0Y00	Carslaw	166	19	
X11B-0Y10B0	Carslaw	165	18	Solution in form of integral
X11B-0Y11B00T-	Luikov	463	12.2.7	Two-Dimensional Plate, BVP
X11B-0Y11B00Z11B00	Carslaw	183	20,21	Steady state 0<x<a, 0<y<b, 0<z<c
X11B-0Y11B00Z11B00T0	Carslaw	362	3	Green's function solution for arbitrary T at x=0
X11B10	Cole	89	3.99	Steady fin, T specified at end
X11B10T0	Cole	156	5.19	Large-time form
X11B10T0	Cole	159	5.27	Recommended large-time form
X11B10Y11B00Z11B00T0	Carslaw	417	6	
X11B11T-	Luikov	97	4.3.1-4.3.3	Infinite Plate (slab body), BVP
X11B11T-	Carslaw	100	1	T(0,t)=T1, T(L,t)=T2
X11B11T0	Carslaw	100	2	-L<x<L
X11B11T0	Carslaw	100	4	-1<x<1 Dimensionless
X11B11T0	Carslaw	463		T(0,t) = T(L,t) = 1
X11B11Y11B00Z11B00	Carslaw	177	9	Steady state
X11B11Y11B11Z11B11T0	Carslaw	185	11	Same T on all surfaces
X11B11Y11B11Z11B11T1	Luikov	161	4.7.1-4.7.3	Parallelepiped, BVP
X11B11Y11B11Z11B11T1	Luikov	163	4.7.11	General Solution

X11B11Y23B00Z23B00--	Carslaw	179	23	Steady state, 0<y<b, 0<y<c
X11B11Y33B00Z00B00T0	Carslaw	418	11,12	Transient part.- For S.S. part, C&J 6.2 (23)
X11B11Y33B00Z33B00	Carslaw	179	23	Steady state, -b<y<b, -c<z<c
X11B22T0	Carslaw	104	4	T(-L,t)=T(L,t)=kt, -L<x<L
X11B22Y11B22Z11B22T0	Carslaw	185	13	Same f(t) = at on all surfaces
X11B44T0	Carslaw	105	6	T(-L,t)=T(L,t)=V exp(bt) -L<x<L
X11B44T0	Carslaw	104	5	T(-L,t)=T(L,t)=V(1-exp(-bt))
X11B66T0	Carslaw	105	1	T(\L\,T)=sin(wt+e)
X11B--T-	Carslaw	104	2	
X11Bt60Y11B00Z11B00T0	Carslaw	417	8,9	
X11B--Y11B--Z11B-1T0	Carslaw	185	12	Same f(t) on all surfaces
X11F0B00G1	Carslaw	152	6	Steady state, 0<x<L
X11F0B00T0G1	Carslaw	159	3	Transient fin
X11F0B11	Carslaw	139	1	Steady state
X11F0B11	Carslaw	160	5	Steady state, -L<x<L
X11F0B11T0	Carslaw	135	8	-L<x<L
X11F0B11V1	Carslaw	148	5	Steady state fin, T(0)=V1, T(2L)=V2
X11F0B55T0	Carslaw	146	6,7	Periodic steps in time
X11F0B--T-	Carslaw	144	4	
X11Y11Z11	Cole	143	4.192	Steady 3D GF, triple-sum form
X11Y11Z11	Cole	143	4.193	Steady 3D GF, double-sum form
X11Y11Z11	Cole	229	6.177	Steady, triple-sum form
X11Y11Z11	Cole	229	6.180	Steady, double-sum form
X11Y20	Cole	144	4.198	Steady GF, 2D
X12	Cole	16	1.52	Steady GF, plane wall
X12	Cole	114	4.59	Transient GF, small-cotime form
X12	Cole	134	4.155	Transient GF, large-cotime form
X12B00G(x7)	Cole	200	6.67	Steady, plane source
X12B00G(x7t1)T0	Cole	201	6.69	Transient, plane source
X12B00G1	Cole	14	1.40	Steady, uniform heat generation
X12B00G4	Cole	17	1.54	Steady, heating varies exponentially
X12B00G5	Cole	18	1.55	Steady, step in heat generation

X12B00T5	Cole	198	6.56	J = 2 for type 2 at x=L
X12B01T0	Carslaw	113	5,6	Two forms, 0<x<L
X12B03T0	Carslaw	114	8	T(L,t)=q0 sqrt(t**m), m=-1,0,1...
X12B10Y12B00	Cole	163	5.44	Steady, single-sum form
X12B10Y12B00	Cole	174	5.75	Steady, alternate form
X12B10Y12B00T0	Cole	162	5.37	Large-time form
X12B10Y12B00T0	Cole	164	5.47	Improved-convergence form
X12F0B00G1	Carslaw	152	6	Steady state, 0<x<L
X12F0B10	Carslaw	142	6	
X12F0B10	Carslaw	142	14	Steady state, fin taper linear at a small angle A x=0, area=D, x=L, area=D-2AL
X12F0B10V1	Carslaw	148	5	Steady state fin 0<x<L, V1=V2
X12Y12	Cole	132	4.145	Steady GF, single sum form
X12Y12	Cole	162	5.32	Steady GF, double-sum form
X12Y12	Cole	163	5.40	Steady GF, single sum form
X13B00T-	Carslaw	120	11	
X13B00T0G1	Carslaw	132	13	0<x<L
X13B01T0	Carslaw	125	15	
X13B01T2	Carslaw	126	17	F(x)=Vx/L, 0<x<L f2(t)=V
X13B10T0	Carslaw	126	16	
X13B10Y33B00Z33B00--	Carslaw	180	27	Steady state
X14B00T01	Carslaw	128	8	
X14B01T00	Carslaw	128	7	
X14B10T00	Carslaw	129	9	
X1B0CX0T00Gxt7----	Carslaw	365	16	Green's function for composite
X1B0CX1B0T00Gxt7	Carslaw	365	13,14	Green's function finite composite plate
X1B0G1CX0T00	Carslaw	323	24,26	
X1B10Y10B00T0	Luikov	465	12.2.10	Two-Dimensional Plate
X1B1CX0T00	Carslaw	321	16,17	
X1B1CX1B0T00	Carslaw	324	30,	EQ 30 -L<x<0, EQ 31 0<x<A
X1C0G-T0	Luikov	448	11.1.26,27	moving heat source: freezing/melting
X1C10B1T00	Luikov	408	10.2.17-10.2.18	two regions in contact
X1C10B1T10	Luikov	409	10.2.19-10.2.20	two regions in contact

X1C10B2T00	Luikov	410	10.2.22-10.2.23	linear-in-time surface temp.
X1C10B2T11	Luikov	410	10.2.24-10.2.25	linear-in-time surface temp.
X1C10B6T00	Luikov	411	10.2.26-10.2.27	period-in-time surface temp.
X1C11B10T00	Luikov	413	10.3.7-10.3.8	Two Infinite Plates
X1F0B0G1CX2F0B0G1	Carslaw	157	11	Steady state composite fin
X1F0B1CX2F0B0	Carslaw	157	9	Steady state composite fin
X1F0B1G1CX1F0B1G1	Carslaw	157	5	Steady state composite wire
X1GPX7T7Z0T1	Carslaw	270	13	Heat emitted along rectalinear source, -B<x<B -L<Y<L T approach OO for s.s.
X20	Cole	33	1.107	Transient GF, semi-infinite body
X20B0G(t3)T0	Cole	192	6.34b	Generation varying as t^(n/2)
X20B0T-	Carslaw	56	6	
X20B0T-	Carslaw	276	7	Source at X=X', sink at X=-X'
X20B0T0Gx5	Carslaw	80	9,10	g(x)=a, 0<x<L; g(x)=0, x>L
X20B0T2	Cole	185	6.11	Linearly-varying initial condition
X20B0T2Gx4	Carslaw	80	13	F(x)=a+bx, g(x)=a exp(-bx)
X20B0T5	Cole	184	6.7	I = 2 for type 2 boundary
X20B1T0	Luikov	169	5.1.12	
X20B1T0	Luikov	170	5.1.19	Solution via Laplace; see Eq 5.1.12
X20B1T0	Luikov	171	5.1.21	typo: replace Fo_x by (Fo_x)^1/2
X20B1T0	Cole	188	6.24	Constant boundary heat flux
X20B1T0	Carslaw	75	6,7	Two forms of solution
X20B1T1	Luikov	168	5.1.1-5.1.4	Semi-Infinite Body
X20B1T1	Luikov	172	5.1.24	Equivalent Solution to 5.1.19
X20B3T0	Cole	189	6.25	Boundary varying as t^(n/2)
X20B3T0	Carslaw	76	12	f(t)=a sqrt(kt), 0<t<ta; f(t)=0, t>ta
X20B3T0	Carslaw	77	16	f(t)=q0 sqrt(t^n), n=-1,0,1..
X20B5T0	Carslaw	76	10	f(t)=q0, 0<t<ta;f(t)=0, t>ta
X20B6T	Carslaw	67	14	f(t)=a cos(wt-e)
X20B6T0	Carslaw	76	13	f(t)=sin(wt+e)
X20B-T0	Carslaw	76	9	
X20B-T0	Carslaw	402	14,15	Steady periodic square wave
X21B00G-	Carslaw	406	19	g(T)=B exp(T), steady state

X21B00Gx-	Carslaw	132	10b	0<x<L Steady state
X21B00Gx7t7T0	Luikov	387	9.2.13	Biot large
X21B00T-	Luikov	100	4.3.14	Solution via Sep. of Var.
X21B00T-	Carslaw	276	8	Alt source at +/-4NA+/-X', sink at +/-(4N+2)A+/-X
X21B00T0G-	Carslaw	404	6	g(T)=K(A+BT) for t>0
X21B00T0G1	Carslaw	130	7	0<x<L
X21B00T0G3	Carslaw	131	8	0<x<L, g=at^2 n/2, n=-1,0,1,2,...
X21B00T0Gt-	Carslaw	131	9	0<x<L
X21B00T0Gt4	Carslaw	132	14	0<x<L, g(t)=a exp(-bt)
X21B00T0Gx-	Carslaw	132	10a	0<x<L
X21B00T1	Luikov	101	4.3.15	t(x,0)=constant
X21B00T1	Luikov	424	10.6.16-10.6.20	small time only
X21B00T1	Carslaw	97	8,9	0<x<L
X21B00T2	Carslaw	97	14,15	F(x)=V(L-x)/L, 0<x<L
X21B00T3	Carslaw	98	16,17	0<x<L
X21B00T6	Carslaw	99	18	F(x)=V cos(x/2L), 0<x<L
X21B01F1T-	Luikov	243	6.4.13	H2 infinite gives X21
X21B01T-	Carslaw	101	5	
X21B01T0	Carslaw	100	2	0<x<L
X21B01T0	Carslaw	100	4	0<x<1 Dimensionless
X21B01T0	Carslaw	309	3	Best for small dimensionless times
X21B01T0	Carslaw	313	6	
X21B01T0	Luikov	243	6.4.14	drop fin effect
X21B02T-	Luikov	304	7.1.14	Bi large gives type 1 boundary
X21B02T0	Luikov	304	7.1.16	small-time form
X21B02T0	Carslaw	104	4	T(L,t)=kt, 0<x<L
X21B04T0	Luikov	316	7.4.11	Bi large
X21B04T0	Carslaw	105	6	T(L,t)=V exp(bt) 0<x<L
X21B05T	Carslaw	109	20,21	Steady periodic
X21B06T0	Luikov	328	7.6.16	Biot large
X21B06T0	Carslaw	104	5	T(L,T)=V(1 - exp(bt)) 0<x<L
X21B06T0	Carslaw	105	1	T(L,t)=sin(wt+e)

X21B0-T-	Carslaw	104	3	
X21B0-T0	Carslaw	313	7	
X21B10Y21B01	Cole	213	6.122	Best for large time
X21B11T1	Luikov	101	4.3.16	Non-Zero BC
X21B11T1	Luikov	104	4.3.25	Solution via Laplace trans.
X21B10T0	Cole	204	6.81	Best for small time
X21B10T0	Cole	205	6.83	Standard large-time form
X21B10T0	Cole	205	6.85	Improved convergence, recommended form
X21B21T1	Cole	165	5.51	Standard form
X21B21T1	Cole	166	5.60	Improved-convergence form
X21B30T0	Cole	196	6.52	Boundary varying as t^(m/2) and J=1
X21F0B01T0	Carslaw	135	8	0<x<L
X21F0B0-T-	Carslaw	144	5	
X22	Cole	139	4.178	Pseudo GF, steady 1D
X22	Cole	122	4.109	Large-cotime form
X22B00Gt2T0	Luikov	364	8.2.35	linear-in-time source
X22B00Gt3T0	Luikov	365	8.2.39	polynomial-in-time source
X22B00Gt4T0	Luikov	364	8.2.37	exponential-in-time source
X22B00Gt6T0	Luikov	364	8.2.38	periodic-in-time source
X22B00Gx2T0	Luikov	363	8.2.32	linear spatial source
X22B00Gx3T0	Luikov	364	8.2.33	parabolic spatial source
X22B00Gx4T0	Luikov	364	8.2.34	expontial-in-space source
X22B00T-	Carslaw	101	6	
X22B00T0Gxt7	Carslaw	361	7	Green's function
X22B00Y22B00T0Gxt7	Carslaw	362	4	Green's function
X22B01G1T1	Luikov	363	8.2.31	w=const.
X22B01G-T1	Luikov	363	8.2.29	
X22B01T0	Luikov	174	5.2.14	General Solution
X22B01T0	Luikov	176	5.2.20	Solution via Laplace; see Eq 5.2.14
X22B01T0	Luikov	177	5.2.24	best for small time
X22B01T0	Luikov	182	5.2.43	Identical Solution to 5.2.14 and 5.2.20
X22B01T0	Carslaw	112	3,4	Two forms, 0<x<L

X22B01T0	Carslaw	310	8	Best for small dimensionless times
X22B03T0	Carslaw	113	7	T(L,t)=q0 sqrt(t^m), m=-1,0,1,..
X22B0-G-T-	Luikov	362	8.2.27	Variable Heat Source
X22B0-T-	Luikov	181	5.2.39	Solution via Fourier Integral Transform
X22B10T0	Cole	206	6.87	Standard form
X22B10T0	Cole	207	6.94	Alternate form
X22B11Y33B11Z33B11T0	Luikov	350	1.10.1	one convection temp., see Eq. 6.9.11
X22B30T0	Cole	196	6.52	Boundary varying as t^(m/2) and J=2
X22F0B00T-	Carslaw	144	6	
X22Y22	Cole	140	4.180	Pseudo GF, steady 2D
X22Y22	Cole	140	4.184	Pseudo GF, alternate form
X23B00G1T1	Luikov	358	8.2.8	w=const.
X23B00G3T1	Luikov	360	8.2.16	w=τ^(n/2)
X23B00G4T1	Luikov	359	8.2.14	w=exp(-kτ)
X23B00G-T1	Luikov	357	8.2.1-8.2.4	Plate (slab, wall), BVP
X23B00Gx7t7T0	Luikov	387	9.2.11	
X23B00T-	Luikov	219	6.3.15	symmetry replacae by type 2 boundary
X23B00T-	Luikov	220	6.3.16	Alternate Solution to 6.3.15
X23B00T-	Carslaw	119	1	0<x<L
X23B00T-	Carslaw	120	8	
X23B00T0G-	Carslaw	405	10	g(T)=K(A+BT), t>0
X23B00T0G1	Carslaw	132	12	0<x<L, h1 = h2
X23B00T1	Luikov	220	6.3.18	uniform initial condition
X23B00T1	Luikov	220	6.3.19	Dimensionless Form
X23B00T1	Luikov	223	6.3.28	Solution via Laplace; see Eq 6.3.18
X23B00T1	Carslaw	122	12	
X23B00T1	Carslaw	311	11	Best for small dimensionless times
X23B00T1	Carslaw	316	24	
X23B00T2	Carslaw	124	13	F(x)=a-bx**2
X23B00Y11B-0	Carslaw	168	21	
X23B00Y11B10	Carslaw	168	22	
X23B00Y12B-0	Carslaw	167	16	

X23B00Y12B10	Carslaw	168	17	
X23B00Y13B-0	Carslaw	168	19	
X23B00Y13B10	Carslaw	168	20	
X23B01F1T1	Luikov	241	6.4.1-6.4.4	finite-length fin, BVP
X23B01F1T1	Luikov	245	6.4.17	finite-length fin
X23B01F1T1	Luikov	246	6.4.19	spatial average temp. in fin
X23B02T0	Luikov	303	7.1.8	General Solution
X23B02T0	Carslaw	127	9	f2=kt, 0<x<L
X23B02T1	Luikov	301	7.1.1-7.1.3	time-varying fluid temp, BVP
X23B04T0	Luikov	315	7.4.7	General Solution
X23B04T0	Luikov	316	7.4.9	Dimensionless Form of 7.4.7
X23B04T0	Luikov	319	7.5.7	exponential-in-time fluid temp.
X23B04T0	Luikov	320	7.5.12	Constant evaporation rate
X23B05T0	Carslaw	127	3,4	f2=V0, 0<t<ta;f2=V1, t>ta
X23B06T-	Luikov	327	7.6.14	Quasi Stationary State
X23B06T0	Luikov	326	7.6.9	periodic fluid temp.
X23B06T0	Luikov	327	7.6.11	dimensionless form
X23B06T0	Carslaw	127	5	f2=Vsin(wt+e), 0<x<L
X23B0-T0	Carslaw	127	1	0<x<L
X23B10T0	Carslaw	125	14	0<x<L
X23B60	Cole	340	9.39	Steady periodic, surface heating
X23F0B00T1	Carslaw	144	7	0<x<L
X24B00T01	Carslaw	128	6	
X24B01T00	Carslaw	128	5	
X24B10T00	Carslaw	129	10	
X25B00T10	Carslaw	129	11	
X25B0-T00	Carslaw	129	13	
X2C10B0Gx5T11	Luikov	426	10.6.25-10.6.26	with heat source
X2C10B0Gx7t7T00	Luikov	427	10.6.30-10.6.31	Instantaneous heat source
X2C10B0T10	Luikov	423	10.6.1-10.6.6	Infinite plate, BVP
X2C10B0T10	Luikov	424	10.6.14-10.6.15	General solution
X2C11B01T1	Luikov	442	10.10.10	Biot large for type 1 boundary

X2C11B10T11	Luikov	415	10.3.22-10.3.23	General solution
X2C13B01T1	Luikov	441	10.10.5-10.5.6	Three Plates, Symmetric
X30	Cole	110	4.27	Transient GF, semi-infinite body
X30B0G(x4t6)	Cole	342	9.45	Steady periodic, internal heating
X30B0Gx7t7T0	Luikov	383	9.1.17	GF for semi-inf body
X30B0T0Gt3	Carslaw	308	23	g(t)=k0 t^(n/2), n = -1, 0, and any positive integer
X30B0T0Gxt7	Carslaw	358	6	Green's function
X30B0T1	Carslaw	71	1	
X30B0T1V1	Carslaw	389	10	
X30B0Y00Z00T0Gxyzt7	Carslaw	371	4	Green's function
X30B0Y30B0T1	Carslaw	172	4,5	
X30B0Y30B0Z30B0T1	Carslaw	184	2	
X30B1T0	Luikov	206	6.1.14	dimensionless form
X30B1T0	Luikov	343	7.7.9	fixed fluid temp.
X30B1T0	Cole	190	6.29	Boundary convection suddenly applied
X30B1T0	Carslaw	72	5	
X30B1T0	Carslaw	306	top	
X30B1T1	Luikov	204	6.1.1-6.1.4	Semi-Infinite Body, BVP
X30B1T1	Luikov	205	6.1.11	H = alpha/lambda, units 1/meters
X30B5T0	Carslaw	74	2,3	f(t)=a, 0<t<V;f(t)=b,- t>ta
X30B6T0	Luikov	332	7.6.19	Semi-Infinite Body
X30B6T0	Carslaw	74	4	f(t)=sin(wt+e)
X30B-T-	Carslaw	359	7	Green's function solution for arbitrary conditions
X30B-T0	Luikov	343	7.7.8	Semi-infinite body
X30B-T0	Carslaw	74	1	
X32B00G3T1	Luikov	356	8.1.27	convection boundary
X32B00T1	Cole	210	6.112	Homogeneous boundary
X32B10T0	Cole	209	6.98	Standard form
X32B10T0	Cole	210	6.105	Improved convergence
X33B00T-	Carslaw	118	12	0<x<L h1 = h2
X33B00T-	Carslaw	119	1	-L<x<L h1 = h2
X33B00T-	Carslaw	120	8	F(x) is even function L<x<L

X33B00T-	Carslaw	120	11	F(x) is odd function of x
X33B00T-	Carslaw	126	21-24	general result, h1 not = h2
X33B00T(1,2)	Carslaw	124	13	F(x)=a-bx**2
X33B00T0G1	Carslaw	132	12	L<x<L
X33B00T0Gxt7	Carslaw	360	4	Green's function
X33B00T1	Luikov	232	6.3.39	small-time approx. form
X33B00T1	Carslaw	122	12	h1=h2, -L<x<L
X33B00T3	Luikov	236	6.3.48	quadratic initial condition
X33B00Y11B10	Carslaw	168	22	
X33B00Y11B11	Carslaw	168	17	
X33B00Y11B11	Carslaw	169	23	T(x,0)=V1, T(x,b)=V2
X33B00Y13B10	Carslaw	168	20	
X33B00Y30B0T1	Carslaw	173	9	-L<x<L
X33B00Y33B00G1	Carslaw	171	5	
X33B00Y33B00T1	Carslaw	173	12	
X33B00Y33B00Z33B00T1	Carslaw	184	8	
X33B01T0	Carslaw	126	19	-L<x<L, h1 = h2
X33B11	Luikov	322	7.5.21	Steady state solution
X33B11T-	Luikov	214	6.3.1-6.3.4	plate, symmetric boundaries, BVP
X33B11T0	Luikov	321	7.5.18	Asymmetric plate
X33B11T1	Luikov	239	6.3.58	H1 at x=0, H2 at x=L
X33B11Y33B11Z33B11T0	Luikov	287	6.9.7	one convection temp.
X33B11Y33B11Z33B11T1	Luikov	286	6.9.1-6.9.5	Finite plate, BVP
X33B11Y33B11Z33B11T1	Luikov	288	6.9.11	average temp.
X33B232T0	Carslaw	127	9	f1=f2=kt, -L<x<L
X33B55T0	Carslaw	127	3,4	f1=f2=V0, 0<t<ta;f1=f2=V1,t>ta
X33B66T0	Carslaw	127	5	f1=f2=Vsin(wt+e), -L<x<L
X33B--T0	Carslaw	127	1	same function at x = -L,L
X33F0B00T-	Carslaw	145	8	Eqs. (9-11) needed also
X33F0B00T1	Carslaw	144	7	-L<x<L
X3B1C3XC3X-C3X3B0T0	Carslaw	416	9	Chain of n laminated slabs
X40B0T(10)	Carslaw	306	11	

X40B1T(00)	Carslaw	306	12	
X40B1Y4B1T01	Luikov	435	10.9.1-10.9.6	Transfer between a body and liquid flow
X60B0T(10)	Carslaw	307	18	
X62B00T(10)	Carslaw	317	29,30	Well-stirred fluid with convective condition between fluid and solid
X62B10T00	Carslaw	129	14	Contact resistance between fluid and solid
XIJB00G(x7t3)T0	Cole	196	6.50	I,J = 1,2; plane source varying at t^(n/2)