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LIST OF NUMBERS IN CARSLAW AND JAEGER, "Conduction of Heat in Solids," 2nd Edition, 1959, Oxford, USING the CHAPTER 2 NUMBERING SYSTEM in "Heat Conduction Using Green's Functions," by Beck, Cole, Haji-Sheikh and Litkouhi.

#	Number	BOOK	Pg	EQ#	COMMENTS
0001	X00T-	C&J	53	1	For conditions on *f(x)*, see p.54,C&J
0002	X00T-	C&J	54	2	Same as no. 1 which is preferred.
0003	X00T5	C&J	54	3	*F(x)=V, -a<x<a; F(x)*=0, abs*(x)>a*
0004	X00T5	C&J	54	4	*F(x)*=0, *-a<x<a*; *F(x)=V*, *abs(x)>a*
0005	X00T2	C&J	54	5	*F(x)*=0, *abs(x)>a; F(x)=V(a-x)/a*, see C&J
0006	X20B0T-	C&J	56	6	
0007	X10BOT-	C&J	59	1	
0008	X10B0T-	C&J	59	2	Same as C&J, p.59,(1), which is preferred.
0009	X10B0T1	C&J	59	3	
0010	X10B1T0	C&J	60	10	
0011	X00T5	C&J	61	12	F(x)=0, x<0 ;T=V, x>0
0012	X10B0T2	C&J	61	13	F(x)=V+kx
0013	X10B0T5	C&J	62	14	F(x)=V, 0<x<d;T=0 x>0
0014	X10B0T5	C&J	62	15	F(x)=V, a<x<b;T=0, 0<x<a, x>b
0015	X10B-T0	C&J	63	1	
0016	X10B5T0	C&J	63	2,3	f(t)=V0, 0<t<ta; f(t)=V1, t>ta
0017	X10B2T0	C&J	63	4,5	f(t)=kt, two expressions
0018	X10B3T0	C&J	63	6,7	f(t)=sqrt(kt)
0019	X10B3T0	C&J	63	8	f(t)=sqrt(t**n)
0020	X10B4T0	C&J	64	9	f(t)=exp(nt)
0021	X10B6T0	C&J	64	1,2	f(t)=a cos(wt-e)
0022	X10B6T	C&J	65	8	f(t)=a cos(wt-e), steady st. periodic
0023	X20B6T	C&J	67	14	f(t)=a cos(wt-e)
0024	X10B6T	C&J	68	18	f(t)=a0+a1 cos(wt-e1), st. st. per.
0025	X10B5T	C&J	68	20	steady state periodic
0026	X30B0T1	C&J	71	1	
0027	X30B1T0	C&J	72	5	
0028	X30B-T0	C&J	74	1	
0029	X30B5T0	C&J	74	2,3	f(t)=a, 0<t<V;f(t)=b, t>ta
0030	X30B6T0	C&J	74	4	f(t)=sin(wt+e)
0031	X20B1T0	C&J	75	6,7	Two forms of solution
0032	X20B-T0	C&J	76	9	
0033	X20B5T0	C&J	76	10	f(t)=q0, 0<t<ta;f(t)=0, t>ta
0034	X20B3T0	C&J	76	12	f(t)=a sqrt(kt), 0<t<ta; f(t)=0, t>ta
0035	X20B6T0	C&J	76	13	f(t)=sin(wt+e)
0036	X20B3T0	C&J	77	16	f(t)=q0 sqrt(t**n), n=-1,0,1..
0037	X10B0T(1,2)G1	C&J	79	2	F(x)=a+bx

0038 X10B0T(1,2)Gx4 C&J 79 3 F(x)=a+bx, g(x)=a exp(-nx)
0039 X10B0T(1,2)Gx5 C&J 79 4,5 F(x)=a+bx; g(x)=a, 0<x<L<B
0040 X20B0T0Gx5 C&J 80 9,10 g(x)=a, 0<x<L; g(x)=0, x>L
0041 X10B0T0Gt4 C&J 80 12 g(x)=a exp(-kt)
0042 X20B0T2Gx4 C&J 80 13 F(x)=a+bx, g(x)=a exp(-bx)
0043 X0T1CX0T0 C&J 88 5,6 Composite, F(x)=V, x>0; F(x)=0,X>0
0044 X0T0C2X0T0 C&J 88 9,10 Composite, heat flux at x=0
0045 X0T1C3X0T0 C&J 89 12 Composite, resistance at x=0
0046 X11B00T- C&J 94 4,5 0<x<L
0047 X11B00T1 C&J 96 6 0<x<L
0048 X11B00T2 C&J 96 7 F(x)=kx, 0<x<L
0049 X11B00T1 C&J 97 8,9 -L<x<L, two forms of solution
0049 X21B00T1 C&J 97 8,9 0<x<L
0050 X11B00T2 C&J 97 14,15 F(x)=V(L-abs(x))/L, -L<x<L
0051 X21B00T2 C&J 97 14,15 F(x)=V(L-x)/L, 0<x<L
0052 X11B00T3 C&J 98 16,17 F(x)=V(L**2-X**2)/L**2, -L<x<L
0052 X21B00T3 C&J 98 16,17 0<x<L
0053 X11B00T6 C&J 99 18 F(x)=V cos(x/2L), -L<x<L
0054 X21B00T6 C&J 99 18 F(x)=V cos(x/2L), 0<x<L
0055 X11B11T- C&J 100 1 T(0,t)=T1, T(L,t)=T2
0056 X11B11T0 C&J 100 2 -L<x<L
0057 X21B01T0 C&J 100 2 0<x<L
0058 X11B11T0 C&J 100 4 -1<x<1 Dimensionless
0059 X21B01T0 C&J 100 4 0<x<1 Dimensionless
0060 X21B01T- C&J 101 5
0061 X22B00T- C&J 101 6
0062 X11B--T- C&J 104 2
0063 X21B0-T- C&J 104 3
0064 X11B22T0 C&J 104 4 T(-L,t)=T(L,t)=kt, -L<x<L
0065 X21B02T0 C&J 104 4 T(L,t)=kt, 0<x<L
0066 X11B66T0 C&J 104 5 T(-L,t)=T(L,t)=V(1-exp(-bt))
0067 X21B06T0 C&J 104 5 T(L,T)=V(1-exp(-bt)) 0<x<L
0068 X11B44T0 C&J 105 6 T(-L,t)=T(L,t)=V exp(bt) -L<x<L
0069 X21B04T0 C&J 105 6 T(L,t)=V exp(bt) 0<x<L
0070 X11B66T0 C&J 105 1 T(\L\,T)=sin(wt+e)
0071 X21B06T0 C&J 105 1 T(L,t)=sin(wt+e)
0072 X11B06T0 C&J 105 5,6 T(L,t)=sin(wt+e) 0<x<L
0073 X11B05T C&J 108 15,17 Steady periodic
0074 X21B05T C&J 109 20,21 Steady periodic
0075 X22B01T0 C&J 112 3,4 Two forms, 0<x<L
0076 X12B01T0 C&J 113 5,6 Two forms, 0<x<L
0077 X22B03T0 C&J 113 7 T(L,t)=q0 sqrt(t**m), m=-1,0,1,..
0078 X12B03T0 C&J 114 8 T(L,t)=q0 sqrt(t**m), m=-1,0,1...
0079 X33B00T- C&J 118 12 0<x<L h1 = h2
0080 X33B00T- C&J 119 1 -L<x<L h1 - h2
0081 X23B00T- C&J 119 1 0<x<L

0082 X33B00T- C&J 120 8 F(x) is even function -L<x<L
0083 X23B00T- C&J 120 8
0084 X33B00T- C&J 120 11 F(x) is odd function of x
0085 X13B00T- C&J 120 11
0086 X33B00T1 C&J 122 12 h1=h2, -L<x<L
0087 X23B00T1 C&J 122 12
0088 X33B00T(1,2) C&J 124 13 F(x)=a-bx**2
0089 X23B00T2 C&J 124 13 F(x)=a-bx**2
0090 X23B10T0 C&J 125 14 0<x<L
0091 X13B01T0 C&J 125 15
0092 X13B10T0 C&J 126 16
0093 X13B01T2 C&J 126 17 F(x)=Vx/L, 0<x<L f2(t)=V
0094 X33B01T0 C&J 126 19 -L<x<L, h1 = h2
0095 X33B00T- C&J 126 21-24 general result, h1 not = h2
0096 X33B--T0 C&J 127 1 same function at x = -L,L
0097 X23B0-T0 C&J 127 1 0<x<L
0098 X33B55T0 C&J 127 3,4 f1=f2=V0, 0<t<ta;f1=f2=V1,t>ta
0099 X23B05T0 C&J 127 3,4 f2=V0, 0<t<ta;f2=V1, t>ta
0100 X33B66T0 C&J 127 5 f1=f2=Vsin(wt+e), -L<x<L
0101 X23B06T0 C&J 127 5 f2=Vsin(wt+e), 0<x<L
0102 X33B232T0 C&J 127 9 f1=f2=Kt, -L<x<L
0103 X23B02T0 C&J 127 9 f2=Kt, 0<x<L
0104 X24B01T00 C&J 128 5
0105 X24B00T01 C&J 128 6
0106 X14B01T00 C&J 128 7
0107 X14B00T01 C&J 128 8
0108 X14B10T00 C&J 129 9
0109 X24B10T00 C&J 129 10
0110 X25B00T10 C&J 129 11
0111 X25B0-T00 C&J 129 13
0112 X62B10T00 C&J 129 14 Contact resistance between fluid and solid
0113 X11B00T0G1 C&J 130 7 -L<x<L
0114 X21B00T0G1 C&J 130 7 0<x<L
0115 X11B00T0G3 C&J 131 8 -L<x<L, g=at**n/2, n=-1,0,1,2,...
0116 X21B00T0G3 C&J 131 8 0<x<L, g=at**n/2, n=-1,0,1,2,...
0117 X11B00T0Gt- C&J 131 9 -L<x<L
0118 X21B00T0Gt- C&J 131 9 0<x<L
0119 X11B00T0Gx- C&J 132 10a -L<x<L
0120 X21B00T0Gx- C&J 132 10a 0<x<L
0121 X11B00Gx- C&J 132 10b -L<x<L Steady state
0122 X21B00Gx- C&J 132 10b 0<x<L Steady state
0123 X33B00T0G1 C&J 132 12 -L<x<L
0124 X23B00T0G1 C&J 132 12 0<x<L, h1 = h2
0125 X13B00T0G1 C&J 132 13 0<x<L
0126 X11B00T0Gt4 C&J 132 14 -L<x<L, g(t)=a exp(-bt)

0127 X21B00T0Gt4 C&J 132 14 0<x<L, g(t)=a exp(-bt)
0128 X10F0B1T0 C&J 135 7
0129 X11F0B11T0 C&J 135 8 -L<x<L
0130 X21F0B01T0 C&J 135 8 0<x<L
0131 X10F0B1 C&J 135 1 Steady state
0132 X11F0B11 C&J 139 1 Steady state
0133 X12F0B10 C&J 142 6
0134 X12F0B10 C&J 142 14 Steady state, fin taper linear
at a small angle A
x=0, area=D, x=L, area=D-2AL
0135 R12F0B10 C&J 143 20 Circular fin
0136 RF--0 C&J 143 24 Circular fin, variable thickness, z=D/r
0137 R12F0B10 C&J 143 27 Circular fin variable thickness, z=D/r*r
0138 X11F0B--T- C&J 144 4
0139 X21F0B0-T- C&J 144 5
0140 X22F0B00T- C&J 144 6
0141 X33F0B00T1 C&J 144 7 -L<x<L
0142 X23F0B00T1 C&J 144 7 0<x<L
0143 X33F0B00T- C&J 145 8 Eqs. (9-11) needed also
0144 X11F0B55T0 C&J 146 6,7 Periodic steps in time
0145 X10F0B1V1 C&J 148 4 Steady state fin
0146 X11F0B11V1 C&J 148 5 Steady state fin, T(0)=V1, T(2L)=V2
0147 X12F0B10V1 C&J 148 5 Steady state fin 0<x<L, V1=V2
0148 X11F0B00G1 C&J 152 6 Steady state, 0<x<L
0148 X12F0B00G1 C&J 152 6 Steady state, 0<x<L
0148 X1F0B1G1CX1F0B1G1 C&J 157 5 Steady state composite wire
0149 X1F0B1CX2F0B0 C&J 157 9 Steady state composite fin
0150 X1F0B0G1CX2F0B0G1 C&J 157 11 Steady state composite fin
0151 X11F0B00T0G1 C&J 159 3 Transient fin
0152 X11F0B11 C&J 160 5 Steady state, -L<x<L
0152 X11B00Y10B1 C&J 164 11 Steady state, 2-D
0152 X11B-0Y10B0 C&J 165 18 Solution in form of integral
0152 X11B-0Y00 C&J 166 19
0152 X10B-Y00 C&J 166 20
0152 X11B00Y11B10 C&J 167 10
0152 X23B00Y12B-0 C&J 167 16
0152 X23B00Y12B10 C&J 168 17
0152 X33B00Y11B11 C&J 168 17
0152 X23B00Y13B-0 C&J 168 19
0152 X23B00Y13B10 C&J 168 20
0152 X33B00Y13B10 C&J 168 20
0152 X23B00Y11B-0 C&J 168 21
0152 X23B00Y11B10 C&J 168 22
0152 X33B00Y11B10 C&J 168 22
0152 X33B00Y11B11 C&J 169 23 T(x,0)=V1, T(x,b)=V2
0152 X11B00Y11B-0F0 C&J 170 10

0152 X33B00Y33B00G1 C&J 171 5
0152 X11B00Y11B00G1 C&J 171 6
0152 X10B0Y10B0T1 C&J 171 2
0152 X30B0Y30B0T1 C&J 172 4,5
0152 X11B00Y10B0T1 C&J 173 8 -L<x<L
0152 X33B00Y30B0T1 C&J 173 9 -L<x<L
0152 X11B00Y30B0T1 C&J 173 10 -L<x<L
0152 X11B00Y11B00T1 C&J 173 11
0152 X33B00Y33B00T1 C&J 173 12
0152 X11B11Y11B00Z11B00 C&J 177 9 Steady state
0152 X11B11Y33B00Z33B00 C&J 179 23 Steady state, -b<y<b, -c<z<c
0152 X11B11Y23B00Z23B00 C&J 179 23 Steady state, 0<y<b, 0<y<c
0152 X13B10Y33B00Z33B00 C&J 180 27 Steady state
0152 X10B1Y33B00Z33B00 C&J 180 29 Steady state -b<y<b, -c<z<c
0152 X10B1Y23B00Z23B00 C&J 180 29 Steady state 0<y<b, 0<z<c
0152 X11B-0Y11B00Z11B00 C&J 183 20,21Steady state 0<x<a, 0<y<b, 0<z<c
0152 X10B0Y10B0Z10B0T1 C&J 184 1
0152 X30B0Y30B0Z30B0T1 C&J 184 2
0152 X11B00Y11B00Z10B0T1 C&J 184 3,4
0152 X11B00Y11B00Z11B00T1C&J 184 5 or eq. 6 and 7
0152 X33B00Y33B00Z33B00T1C&J 184 8
0152 X11B11Y11B11Z11B11T0C&J 185 11 Same T on all surfaces
0152 X11B--Y11B--Z11B-1T0C&J 185 12 Same f(t) on all surfaces
0152 X11B22Y11B22Z11B22T0C&J 185 13 Same f(t) = at on all surfaces
0152 X11B00Y11B00Z11B00
T(-x,y,z,-) C&J 187 5
0153 R11B11 C&J 189 3 T(a)=T1 T(b)=T2 a<r<b , steady state
0154 R13B11 C&J 189 5 Steady state
0155 R01B0G1 C&J 191 17
0156 R03B0G1 C&J 191 18
0157 R0G1CR3B0 C&J 192 22,23Insulated wire with energy generation
0158 R01B0G2 C&J 192 27 Linear variation of electrical
resistance of wire with temperature
0159 R21B00G2 C&J 192 28 Linear variation of electrical
resistance of wire with temperature
0160 R01B0T- C&J 198 4
0161 R01B0T1 C&J 199 5
0162 R01B0T3 C&J 199 7 T(r,0)=V-Kr
0163 R01B1T0 C&J 199 8 Eq. (10), same page is dimensionless
0164 R01B-T0 C&J 201 12
0165 R01B2T0 C&J 201 13 T(a,t)=kt
0166 R01B6T0 C&J 201 14 T(a,t)=Vsin(wt+C)
0167 R03B0T- C&J 201 3
0168 R03B0T1 C&J 202 4
0169 R03B1T0 C&J 202 8 Fluid at V
0170 R03B2T0 C&J 202 10 Fluid at kt

0171 R03B6T0 C&J 202 11 Fluid at V sin(wt+e)
0172 R02B1T0 C&J 203 1
0173 R02B0T- C&J 204 3
0174 R01B0T0G1 C&J 204 1
0175 R01B0T0Gt4 C&J 204 2 g = a exp(-bt)
0176 R03B0T0G1 C&J 205 3
0177 R11B00T- C&J 207 12
0178 R11B00T1 C&J 207 13
0179 R1B11T- C&J 207 15 T(a,z)=T1 T(B,t)=T2
0180 R01B(d,z-)D00Z00 C&J 209 6 T(a,z)=f(d,z) Steady state
0181 R01B(z-)Z00 C&J 209 7 T(a,z)=f(z), Steady state
0182 R01B5Z00 C&J 209 8 T(a,z)=1, z>0; =0, Z<0; Steady state
0183 R01B5Z00V(z1) C&J 209 11 T(a,z)=1, z>; =0, z<0
Steady state, Velocity = U
0184 R01B0D00T- C&J 211 1
0185 R03B0D00T- C&J 211 2 T(r,d,0)=F(r,d)
0186 R01B0D00Z00T- C&J 212 4 T(r,d,z,0)=F(r,d,z)
0187 R01B0D11B00T- C&J 213 5 T(r,d,0)=F(r,d)
0188 R01B0D11B00T1 C&J 213 6
0188 R00Z(1,2)0B(1,0) C&J 215 5,9 T(r,0)=TO for 0<r<a
0188 R00Z20B5 C&J 215 7 q=c for 0<r<a
0188 R00Z00C5R00Z0 C&J 216 12, Heat transfer only 0<r<a
13 T=0, z=-B, T=TO, z=B
0188 R00Z20B5 C&J 216 16 Average temperature
0188 R00Z(2,1)0B C&J 217 17
0188 R03B0Z11B-0 C&J 219 8,9
0188 R03B0Z11B10 C&J 219 10
0188 R03B0Z13B-0 C&J 219 13
0188 R01B0Z11B-0 C&J 219 14
0188 R01B-Z11B00 C&J 220 16
0188 R01B-Z33B00 C&J 220 17
0188 R02B5Z22B00 C&J 220 19 f=c, L-kz<L; 9=-c, -L+b<z<-L,
f=0 otherwise
0188 R02B5Z12B00 C&J 220 19 f=c, L-b<z<L, f=0 otherwise
0188 R11B-0Z11B00 C&J 220 20
0188 R21B-0Z11B00 C&J 221 22
0188 R21B50Z11B00 C&J 221 24
0188 R0G1CR1B0Z11BOO C&J 221 25, Composite source wire with volumetric energy
0188 R0G1CR1B0Z11B00 C&J 222 27
0188 R11B00Z11B-0 C&J 222 28
0188 R13B-OZ33B00 C&J 222 29
0188 R01B0Z10B- C&J 222 31
0188 R01B-Z10B0 C&J 222 32
0188 R03B0Z10B- C&J 223 33
0188 R01B-Z30B0 C&J 223 34
0188 R02B0B0Z22B55 C&J 223 35 q=c, 0<r<a at z=0, q-0, a<r<b

q=c, 0<r<a tat z=L, q=0, a<r<b
0188 R01B0Z11B00G1 C&J 224 38
0188 R21B0-Z11B00 C&J 224 39
0188 R21B00Z11B00G1 C&J 224 40
0188 R01B0Z11B00G* C&J 224 41 g=a(1+bT)
0188 R01B0Z11B00F1 C&J 224 41
0188 R01B0Z11B00T1 C&J 225 45
0188 R01B1Z11B11T0 C&J 227 6
0188 R03B0Z33B00T1 C&J 227 7
0188 R01B0Z33B00T1 C&J 227 8
0188 R01B0Z11B00T1 C&J 227 10
0188 R03B0Z10B0T1 C&J 227 11
0188 R01B0Z30B0T1 C&J 227 12
0188 R01B0Z11B00D00T1- C&J 229 middle of pages
0190 RS13B11 C&J 231 4 Steady state
0191 RS33B11 C&J 231 5 Steady state
0192 RS01B0G1 C&J 232 12 Steady state
0193 RS03B0G1 C&J 232 13 Steady state
0194 RS10B1 C&J 232 14 Steady state
0195 RS0GC3RS0 C&J 232 14B Steady state.MATL1 0<r<A, MATL2 R>
0196 RS01B-T- C&J 233 3
0197 RS01B1T0 C&J 233 4,5 TWO FORMS OF SOLUTION
0198 RS01B2T0 C&J 235 10 T(a,t)=kt 0<r<A
0199 RS01B6T0 C&J 235 12 T(a,t)=sin(wt+e) 0<r<A
0200 RS01B0T2 C&J 235 13, T(r,0)=V(A-R)/A , 0<r<A
0201 RS01B0T3 C&J 236 15 T(r,0)=V(A*A-R*R)/A*A 0<r<A
0202 RS01B0T6 C&J 236 17 T(r,0)=(V/R)*sin(pi*R/A) 0<r<A
0203 RS01B0T7 C&J 236 18 T(r,0)=Vexp(C(R-A)) 0<r<A
0204 RS01B0T5 C&J 236 19, T(r,0)=<V 0<r<B, 0 B<r<A! TWO FOR
OF SOLUTION
0205 RS01B0T- C*J 237 21 FOR SMALL VALUE OF kt/(A*A)
0206 RS01B0T3 C&J 237 23 T(r,0)=BO+B1*R+B2*R**2+B3*R**3
0207 RS03B0T- C&J 237 8
0208 RS03B0T1 C&J 238 10
0209 RS03B2T0 C&J 238 11 VO=kt
0210 RS03B6T0 C&J 238 12 VO=Vsin(wt+e)
0211 RS04B0T-0 C&J 240 2 -4*pi*A*A*K*DV/DR=M'C'DU/DT, R=A
0212 RS04B0T10 C&J 240 5
0213 RS02B1T0 C&J 242 1
0214 RS01B0T0G1 C&J 243 6,7 EQ7 FOR SMALL VALUE OF kt/A*A
0215 RS01B0T0GR2 C&J 243 8,9 G(R)=GO(A-R)/A
0216 RS01B0T0GR3 C&J 243 10, G(R)=GO(A*A-R*R)/G*G TWO FORMS
OF SOLUTION
0217 RS01B0TGR6 C&J 244 12 G(R)=(GO/R)sin(pi*R/A)
0218 RS01B0T0GGR7 C&J 244 13 G(R)=GOexp(R-A)
0219 RS01B0T0GT7 C&J 245 14, G(T)=GOexp(-A*T) TWO FORM OF SOL

0220 RS01B0T0GT5 C&J 245 16 G(T)=<0 0<r<B, GOexp(-C*T) B<r<A!
0221 RS01B0T0GR- C&J 245 17 G=G(R)
0222 RS03B1T3 C&J 245 19
0223 RS03B1T3 C&J 246 20B
0224 RS11B11T- C&J 246 1
0225 RS33B00T- C&J 246 2
0226 RS12B01T0 C&J 247 3
0227 RS10B-T- C&J 247 1
0228 RS10B1T0 C&J 247 2
0229 RS30B1T0 C&J 248 3
0230 RS20B1T0 C&J 248 4
0231 RS01B-Q00L00 C&J 250 4 T(A,Q,L,t)=F(Q,L)
0232 RS00Q11B00L00T- C&J 252 12

X00Y00Z00T0Gxyzt7 C&J 256 2 Green's function
0233 RS00Tr5 C&J 257 6 *T(r,0) = V, 0<r<a, T(r,0)* = 0 for *r>a*
0234 RS00Tr5 C&J 257 7 Small *a*
0235 RS00T0Grt7 C&J 257 7b Greens's function for source at r = 0
X00Y00Z00T0Gxyzt7 C&J 257 8 Anisotropic material, different conductivities in *x,y* and *z*
0236 X00F0T0Gxt7 C&J 257 9 Green's function for rod losing heat to surroundings (fin)
0237 X00F0Y00F0T0Gxyt7 C&J 258 10 Green's function for sheet fin with source at origin
0238 X00Y00T0Gxyt7 C&J 258 1 Green's function
R00100T0Gr2t7 C&J 258 3 Green's function
0239 X00T0Gxt7 C&J 259 4 Green's function
0240 R00T0Grt7 C&J 259 5 Green's function
0241 RS00T0Grt7 C&J 259 6 Green's function
0242 R00X00T0Grxt7 C&J 260 7 Green's function
0243 R00Z00T0Gzt7 C&J 260 9 Instantaneous disk source, $g(r,0,t) = g_0 * (t')$ for $r' < a$ at $z' = 0$
0244 R00T- C&J 260 11 *T(r,0)=F(r)*
0245 R00Tr5 C&J 260 12 *T(r,0) = V,* 0<*r*<*a*; *T(r,0)* = 0, *r* > *a*
0246 X00Y00Z00T0Gxyzt7 C&J 261 1
0247 RS00T0Gr7 C&J 261 2 Point source at *r* = 0
0248 R00T0Gt- C&J 261 3 Line source with time variable strength
0249 R00T0Gr7 C&J 261 5 Line source with constant strength
0250 X10B0Y00T0Gxy7 C&J 262 7 Constant line source in semi-infinite body with isothermal surface
0251 X00T0G(x7t-) C&J 262 8 Time variable plane heat source at x'
0252 X00G(x7t1) C&J 263 9 Constant plane heat source at x'
0253 RS00T0G(r7t-) C&J 263 10 Arbitrary time variable spherical source
0254 RS00T0G(r7t1) C&J 263 11 Constant spherical source
0255 RS00T0G(r7t6) C&J 263 12 Periodic point heat source at r' = 0
0256 R00T0G(r7t6) C&J 263 13 Periodic line heat source at r' = 0
0257 X00Z20Bx5T0 C&J 264 1 *T(x,0,t)* given for q = constant over -4 < *x* < 0

0258 X00Z20Bx5T0 C&J 264 3 *T(x,0,t)* given for q = constant over $-a < x < a$
0259 R00Z20Br5T0 C&J 264 4 *T(0,z,t)* given for q = constant over $0 < r < a$
X00Y00Z20B(xy5) C&J 265 6,7 Maximum and average heated surface temperatures, rectangular heat source
R00Z00T0Grz5t1 C&J 266 1 *T(0,0,t)* for constant energy generation over $0 < r < a$, $-b < z < b$
R00Z00T0Grz5t1 C&J 266 1 *T(0,0,t)* for constant energy generation over $0 < r < a$, $-4 < z < 4$
0260 X00Y00Z00T0Ux1G(xyz7t1) C&J 267 1 Moving point heat source (or moving medium about a fixed point heat source at origin)
X00Y00Z00Ux1Gxyz7 C&J 267 1 Steady solution for moving point heat source (or moving medium about a fixed point heat source at origin)
0261 X00Z00Vx1Gxy7 C&J 267 3 Steady solution for moving line heat source (or moving medium about a fixed point heat source at origin)
0262 X00Y00Z22B00VX1GPX0 C&J 268 7

0263 X00Y00Z22B00VX1GPX0 C&J 268 8 HEAT EMITTED FROM T=0 V T=T T
Y3Z0T1 APPROACH OO FOR S.S. AT Y-AXIS
0264 X00Y00Z00VX1GPX7Y3Z C&J 269 10 HEAT EMITTED FROM T=0 V T=T T
0T1 APPROACH OOFOR S.S. ALONG STRIP
-B<x<B, -OO<Y<OO, Z=0
0265 X00Y00Z00VX1GPX7Y7Z C&J 270 13 HEAT EMITTED FROM T=0 V T=T ALON
0T1 RECTALINEAR SOURCE, -B<x<B -L<Y<L
T APPROACH OO FOR S.S.
0266 X00Y00Z00T0GDX-Y-T0 C&J 271 4 INSTANTANEOUS LINE DOUBLET
0267 X00Y00Z00T0GDX-T0 C&J 271 5 INSTANTANEOUS PLANE DOUBLET
0268 X00Y00Z00GDX-T- C&J 271 6 CONTINUOUS PLANE DOUBLET
0269 X10B0T-GDX-T- C&J 274 1 sinK SOURCE AT THE PLANE X'
0270 X11B00T-GPX-T-GPX-T C&J 274 2 ALTERNATING SOURCE-sinKS, sinK AT
- -X'+2NA, SOURCE AT X'+2NA
0271 X11B-0T0GDX6T- C&J 276 6 DOUBLET AT 2NA N=0, 1,2,G*P(T)=2K*
0272 X20B0T-GDX-T-GDX-T- C&J 276 7 SOURCE AT X=X', sinK AT X=-
0273 X21B00T-GDX-T-GDX-T C&J 276 8 ALT SOURCE AT +-4NA+-X', sinK AT +
- (4N+2)A+-X

0274 X10B1T0 C&J 305 5
0275 X10B3T0 C&J 305 6 $T(0,t)=V_0\, t^{n/2}$; n = any positive integer
0276 X10B-T0 C&J 305 7
0277 X30B1T0 C&J 306 top
0278 X40B0T(10) C&J 306 11
0279 X40B1T(00) C&J 306 12
0280 X50B0T(10) C&J 307 18
0281 X30B0T0Gt3 C&J 308 23 $g(t)=k_0\, t^{n/2}$, n = -1, 0, and any positive integer

0282 X10B0T0Gx5 C&J 308 28
0283 X21B01T0 C&J 309 3 Best for small dimensionless times
0284 X11B01T0 C&J 310 6 Best for small dimensionless times
0285 X22B01T0 C&J 310 8 Best for small dimensionless times
0286 X23B00T1 C&J 311 11 Best for small dimensionless times
0287 X11B00T0Gt3 C&J 311 12 $g(t)=k_0 t^{n/2}$, n = -1, 0, and any positive integer
0288 X21B01T0 C&J 313 6
0289 X21B0-T0 C&J 313 7
0290 X11B01T0 C&J 313 10
0291 X11B00T0Gt4 C&J 315 20 $g(t) = a \exp(-ct)$
0292 X23B00T1 C&J 316 24
0293 X62B00T(10) C&J 317 29,30 Well-stirred fluid with convective condition between fluid and solid
0294 X10B6T0 C&J 319 8 $T(0,t) = V\sin(Tt+e)$
0295 X1B1CX0T00 C&J 321 16,17
0296 X1B0G1CX0T00 C&J 323 24,26
0297 X1B1CX1B0T00 C&J 324 30, EQ 30 -L<x<0, EQ 31 0<x<A
0298 R01B1T0 C&J 328 7
0299 R01B2T0 C&J 328 8
0300 R02B1T0 C&J 329 11
0301 R03B1T0 C&J 329 15
0302 R05B0T(10) C&J 330 20
0303 R01B0T1G1 C&J 330 24
0304 R01B1T0 C&J 331 3 For small values of time, $\forall t/a^2<0.02$, r/a not small
0305 R02B1T0 C&J 331 5 For small values of time, $\forall t/a^2<0.02$, r/a not small
0306 R03B1T0 C&J 331 6 For small values of time, $\forall t/a^2<0.02$, r/a not small
0307 R33B11T0 C&J 333 10
0308 R21B10T0 C&J 334 12
0309 R10B1T0 C&J 335 6
0310 R10B1T0 C&J 336 7 For small values of time, $\forall t/a^2<0.02$, r/a not large
0311 R30B0T1 C&J 337 15
0312 R20B1T0 C&J 338 17
0313 R20B1T0 C&J 339 18 For small values of time, $\forall t/a^2<0.02$, r/a not large
0315 R10B6T0 C&J 339 20
0316 R10B0Z10B0T1 C&J 339 21 Product solution
0317 R20B1T0 C&J 341 11 For large values of time, $\forall t/a^2$
0318 R40B0T(10) C&J 342 3
R40B0T(10) C&J 342 5 Solution for 0<r<a, which is independent of r
0319 R40B1T(00) C&J 342 7 Interior cylinder has constant energy generation
R50B0T(10) C&J 344 9,11 Temperature at r=0
R50B1T(00) C&J 344 13,14 Temperature at r=0
R50B1T(00) C&J 345 16,17 Temperature at r=0, small times
R50B1T(00) C&J 345 16,17 Temperature at r=0, large times
0320 R0CR0T(10) C&J 346 7,8

0321 R0G1CR0T00 C&J 347 13,14
0322 RS01B0T1 C&J 348 6
0323 RS00T0Gr5 C&J 349 13,14
0324 RS50B1T00 C&J 349 18
0325 RS50B1T00 C&J 350 19 Solution for small times, 0<r<a
0326 RS50B1T00 C&J 350 20 Solution for large times, 0<r<a
0327 R50B0T(10) C&J 350 21 Temperature at 0<r<a
0328 R50B0T(10) C&J 350 22 Temperature at 0<r<a, small time solution
0329 R50B0T(10) C&J 350 23 Temperature at 0<r<a, large time solution
0330 R41B0T(11) C&J 350 24
0331 R41B1T(00) C&J 350 27
0332 R0CR1B0T11 C&J 352 39,40 Additional terms in eqs. 43,44 may be needed
X10B0T0Gxt7 C&J 357 1 Green's function
0333 X10B-T0Gx- C&J 357 2 Green's function solution for arbitrary conditions
X00T0Gxt7 C&J 358 3 Green's function
0334 X30B0T0Gxt7 C&J 358 6 Green's function
0335 X30B-T- C&J 359 7 Green's function solution for arbitrary conditions
0336 X11B00T0Gxt7 C&J 360 2 Green's function
0337 X33B00T0Gxt7 C&J 360 4 Green's function
0338 X22B00T0Gxt7 C&J 361 7 Green's function
0339 X10B0Y10B0T0Gxt7 C&J 361 2 Green's function
0340 X11B00Y11B00T0Gxt7 C&J 361 3 Green's function
0341 X22B00Y22B00T0Gxt7 C&J 362 4 Green's function
0342 X11B00Y11B00Z11B00T- C&J 362 2 Green's function solution for arbitrary initial T
0343 X11B-0Y11B00Z11B00T0 C&J 362 3 Green's function solution for arbitrary T at x=0
0344 X11B00Y11B00Z11B00T0G- C&J 363 4 Green's function solution for arbitrary source
0345 X11B00Y11B00Z11B00T0G1 C&J 363 5 Green's function solution for constant source
0346 X0CX0T0Gxt7 C&J 364 8,9 Green's function for composite
0347 X0C3X0T0Gxt7 C&J 364 11,12 Green's function, imperfect contact
0348 X1B0CX1B0T00Gxt7 C&J 365 13,14 Green's function finite composite plate
0349 X1B0CX0T00Gxt7 C&J 365 16 Green's function for composite
0350 RS00T0Grt7 C&J 366 1 Green's function sphere
RS01B0T0Grt7 C&J 366 7,9 Green's function, two forms of solution
0351 RS03B0T0Grt7 C&J 367 10 Green's function
0352 RS33B00T0Grt7 C&J 367 13 Green's function
0353 RS30B0T0Grt7 C&J 368 16 Green's function
R00T0Grt7 C&J 368 1 Green's function
0354 R01B0T0Grt7 C&J 369 5 Green's function
0355 R03B0T0Grt7 C&J 369 7 Green's function
0356 R05B0T(00)Grt7 C&J 370 9 Green's function
0357 R33B00T0Grt7 C&J 370 11 Green's function
0358 R30B0T0Grt7 C&J 370 12 Green's function
0359 X10B0Y00Z00T0Gxyxt7 C&J 370 1 Green's function
X10Byzt-Y00Z00Txyz- C&J 371 3 Green's function solution, arbitrary conditions

X30B0Y00Z00T0Gxyzt7 C&J 371 4 Green's function
X00Y00Z00T0Gxyzt7 C&J 371 1 Green's function
0360 X00Y00Z11B00T0Gxyzt7 C&J 373 12,15 Two forms of Green's function
0361 X00Y00Z33B00T0Gxyzt7 C&J 373 17 Green's function
0362 X00Y00Z22B00T0Gxyzt7 C&J 374 18,19 Two forms of Green's function
0363 R00X4*0B0T00Grxt7 C&J 375 7 Green's function with * boundary cond. Eq. 2
0364 X00Y00Z0CZ0T0Gt7 C&J 376 5,6 Green's function source at (0,0,z') for z=0
0365 R01B0100Z00T0Gr2zt7 C&J 377 6 Green's function with source at (r',$2'$,0)
0366 R03B0100Z00T0Gr2zt7 C&J 378 7 Green's function with source at (r',$2'$,0)
0367 R10B0100Z00T0Gr2zt7 C&J 378 8 Green's function
0368 R30B0100Z00T0Gr2zt7 C&J 378 Green's function
0369 R00111B00T0Gr2t7 C&J 379 7 Green's function
0370 R00122B00T0Gr2t7 C&J 379 8 Green's function
R00111B00T0Gr2t7 C&J 380 9 Green's function,wedge of angle 2B
0371 R01B0100Z11B00T0Gr2zt7 C&J 380 2 Green's function
R11B00100Z11B00T0Gr2zt7 C&J 380 3 Green's function
0372 RS01B0M00T0GrNt7 C&J 382 8 Green's function for a point source at sphere origin
0373 RS03B0M00GrNt7 C&J 382 11 Green's function for a point source at sphere origin
0374 RS10B0M00GrNt7 C&J 382 13 Green's function for a point source at (r',0,0)
0375 RS30B0M00T0GrNt7 C&J 382 14 Green's function for a point source at (r',0,0)
0376 RS00M01B0T0GrNt7 C&J 384 7 Green's function for a point source at origin of cone
0377 RS00100M01B0T0GrN2t7 C&J 385 11 Green's function for a point source in cone
0378 R02B0100T0Gr2t7 C&J 386 11,12 Continuous source through (r',0)
0379 X10B2T2G1V1 C&J 388 7 F$(x)=T_o+Ax$, $T(0,t)=T_1+bt$
0380 X30B0T1V1 C&J 389 10
0381 X10B6V1 C&J 389 14 Steady periodic, constant velocity
0382 X11B01F0T0V1 C&J 391 36
X11B05T0 C&J 400 6
X11B0-T0 C&J 401 10,12 Steady periodic square wave
X20B-T0 C&J 402 14,15 Steady periodic square wave
RS00G-T0 C&J 402 17 Steady periodic point source
R00G-T0 C&J 402 20 Steady periodic line source
0383 X21B00T0G- C&J 404 6 $g(T)=K(A+BT)$ for $t>0$
0384 X23B00T0G- C&J 405 10 $g(T)=K(A+BT)$, $t>0$
0385 R01B0T0G- C&J 405 13 g$(T)=K(A+BT)$, $t>0$
0386 X21B00G- C&J 406 19 $g(T)=B\exp(T)$, steady state
X10B1T0 C&J 413 12 Space variable conductivity, $k=k_0x^n$
X3B1C3XC3X...C3X3B0T0 C&J 416 9 Chain of n laminated slabs
0388 X11B10Y11B00Z11B00T0 C&J 417 6
X11Bt60Y11B00Z11B00T0 C&J 417 8,9
X11B11Y33B00Z00B00T0 C&J 418 11,12 Transient part. For S.S. part, C&J 6.2 (23)
0389 R03B0X11B10T0 C&J 418 13

0390 R03B0X13B10T0 C&J 418 14
0391 R03B0X10B1T0 C&J 419 17
0392 R01B1X10B0T0 C&J 419 19
0393 R00111B10T0 C&J 420 23
0394 R00111B11T0 C&J 420 24 $T(r,0,t) = 1$, $T(r,2_0,t) = 1$
0395 RS00M01B1T0 C&J 420 25
R00X11B00100 C&J 423 5,6 Green's function, steady state
R01B0X00100 C&J 423 7 Green's function, steady state
R01B0X11B00100 C&J 423 8,9 Green's function, steady state
0398 X0CX0Y11B05 C&J 428 22,23
0401 R00Z20B5 C&J 462 8 $-kMT(r,0)/Mz = q_0$, $0<r<a$, $MT(r,0)/Mz = 0$, $r>a$
0402 X11B11T0 C&J 463 $T(0,t) = T(L,t) = 1$
0403 X11B00Y11B-0 C&J 464
0404 R00111B11T0 C&J 465 10 $T(r,0,t) = T(r,2_0,t) = 1$
R22B--T- LUIK 197
R22B10T0 HELLS 105 9.10 HELLSTROM, THERMAL ANALYSIS OF DUCT