**MATLAB scripts**

**Chapter 2.2.1 Thermal conductivity values**

*Tcond\_arithmetic.m* (via *Tcond.m*)

*Tcond\_harmonic.m* (via *Tcond.m*)

*Tcond\_geometric.m* (via *Tcond.m*)

**Chapter 3.1.3 Infinite line source –two-dimensional conduction**

*T\_ILS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*closedsys\_mBHE.m*

**Chapter 3.1.4 Infinite cylindrical source –two-dimensional conduction**

*T\_ICS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

**Chapter 3.1.5 Finite line source – three-dimensional conduction**

*T\_FLS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_FLSs.m* (via *closedsys.m* and *closedsys\_mBHE.m*)

*closedsys\_Tb.m*

**Chapter 3.1.6 Finite cylindrical source – three-dimensional conduction**

*T\_FCS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_FCSs.m* (via *closedsys.m* and *closedsys\_mBHE.m*)

**Chapter 3.1.7 Moving infinite line source – two-dimensional conduction and advection**

*T\_MILS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_MILSs.m* (via *closedsys.m* and *closedsys\_mBHE.m*)

*T\_MILSc.m* (via *closedsys\_Tb.m*)

*T\_MILScs.m*

*T\_MILSd.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_MILSsd.m* (via *closedsys.m* and *closedsys\_mBHE.m*)

*T\_PL.m*

**Chapter 3.1.8 Moving finite line source – three-dimensional conduction and advection**

*T\_MFLS.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_MFLSs.m* (via *closedsys.m*, *closedsys\_mBHE.m* and *closedsys\_Tb.m*)

*T\_MFLSc.m* (via *closedsys\_Tb.m*)

*T\_MFLScs.m*

**Chapter 3.1.10 Moving infinite plane source – one-dimensional conduction and advection**

*Continuous\_injection.m*

*Thermal\_front.m*

### **Chapter 3.1.12 Harmonic temperature boundary condition for one-dimensional conductive-advective heat transport**

*Harmonic\_temperature.m*

**Chapter 3.2.1 Analytical solution for steady-state flow in multiple well systems**

*wells\_in\_flow\_field.m*

*recirculation\_rate.m*

**Chapter 3.2.2 Linear flow**

*T\_avd\_linear.m* (via *opensys.m*)

*T\_lau\_linear.m* (via *opensys.m*)

**Chapter 3.2.3 Radial flow, infinite disk source**

*T\_guimera.m* (via *opensys.m*)

*T\_lau\_radial.m* (via *opensys.m*)

*T\_avd\_radial.m* (via *opensys.m*)