



Object-oriented Heat Transfer Software Application

By Fock-Lai Tan

VDM Verlag Jul 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x10 mm. Neuware - A visual object-oriented software application for heat transfer has been developed in Java programming language. With the help of Unified Modeling Language (UML), the project identified the software requirements, which were classified into four areas: heat transfer problem setup, heat transfer solver, display of solved parameters, and saving/retrieval of heat transfer models. The software application covered steady state one-dimensional conduction heat transfer for Cartesian, cylindrical and spherical coordinate systems with temperature, heat flux and convection boundary conditions. A model for transient one-dimensional heat conduction on plane wall with temperature boundary conditions has also been included. In addition, the software can also simulate the lumped capacitance model and extended surfaces with constant coefficients. Flow over a flat plate and 3-surface radiation network models are also incorporated. 168 pp. Englisch.



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