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problems for direct heat conduction problems the concept of the computational analytical solution and approximate solution methods for discrete time steps using superposition of exact solutions which form the basis for the ihcp solutions in the text ihcp solution methods and comparison of many of these approaches through a common suite of test problems filter matrix form of ihcp solution methods and discussion of using filter form tikhonov regularization for solving complex ihcps in multi layer domain with temperature dependent material properties methods and criteria for selection of the optimal degree of regularization in solution of ihcps application of the filter concept for solving two dimensional transient ihcp problems with multiple unknown heat fluxes estimating the heat transfer coefficient h for lumped capacitance body and bodies with temperature gradients bias in temperature measurements in the ihcp and correcting for temperature measurement bias inverse heat conduction is a must have resource on the topic for mechanical aerospace chemical biomedical or metallurgical engineers who are active in the design and analysis of thermal systems within the fields of manufacturing aerospace medical defense and instrumentation as well as researchers in the areas of thermal science and computational heat transfer

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