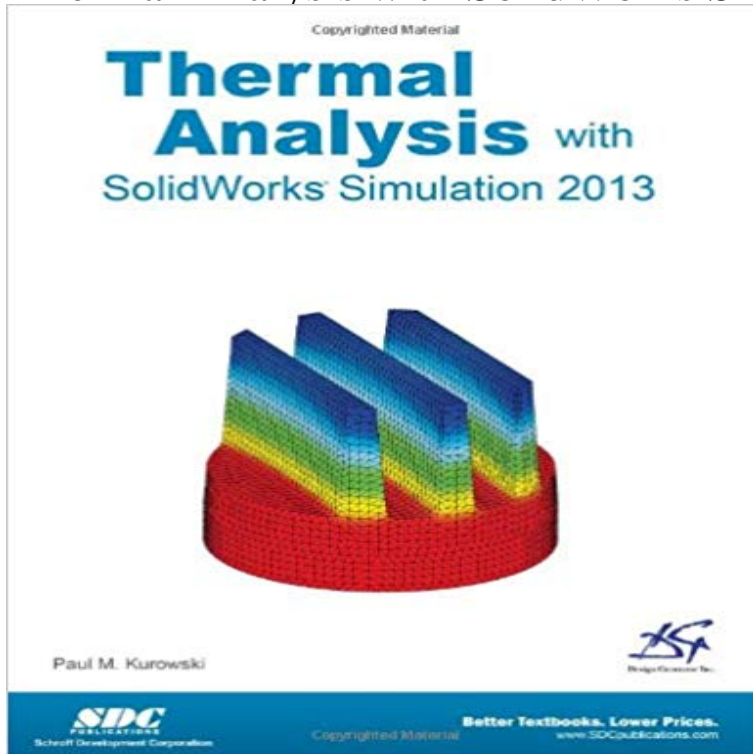


# Thermal Analysis with SolidWorks Simulation 2013



Thermal Analysis with SolidWorks Simulation 2013 goes beyond the standard software manual. It concurrently introduces the reader to thermal analysis and its implementation in SolidWorks Simulation using hands-on exercises. A number of projects are presented to illustrate thermal analysis and related topics. Each chapter is designed to build on the skills and understanding gained from previous exercises. Thermal Analysis with SolidWorks Simulation 2013 is designed for users who are already familiar with basics of Finite Element Analysis (FEA) using SolidWorks Simulation or who have completed the book Engineering Analysis with SolidWorks Simulation 2013. Thermal Analysis with SolidWorks Simulation 2013 builds on these topics in the area of thermal analysis. Some understanding of FEA and SolidWorks Simulation is assumed. Topics covered

Analogies between thermal and structural analysis  
Heat transfer by conduction  
Heat transfer by convection  
Heat transfer by radiation  
Thermal loads and boundary conditions  
Thermal resistance  
Thermal stresses  
Thermal buckling  
Modeling techniques in thermal analysis  
Presenting results of thermal analysis  
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Radiation of a hemisphere  
Radiation between two bodies  
NAFEMS Benchmarks  
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