

Gas Turbine Heat Transfer and Cooling Technology, Second Edition

By Je-Chin Han, Sandip Dutta, Srinath Ekkad

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A comprehensive reference for engineers and researchers, **Gas Turbine Heat Transfer and Cooling Technology, Second Edition** has been completely revised and updated to reflect advances in the field made during the past ten years. The second edition retains the format that made the first edition so popular and adds new information mainly based on selected published papers in the open literature.

See What’s New in the Second Edition:

Suggestions for future research in this critical technology The book discusses the need for turbine cooling, gas turbine heat-transfer problems, and cooling methodology and covers turbine rotor and stator heat-transfer issues, including endwall and blade tip regions under engine conditions, as well as under simulated engine conditions. It then examines turbine rotor and stator blade film cooling and discusses the unsteady high free-stream turbulence effect on simulated cascade airfoils. From here, the book explores impingement cooling, rib-turbulent cooling, pin-fin cooling, and compound and new cooling techniques. It also highlights the effect of rotation on rotor coolant passage heat transfer. Coverage of experimental methods includes heat-transfer and mass-transfer techniques, liquid crystal thermography, optical techniques, as well as flow and thermal measurement techniques. The book concludes with discussions of governing equations and turbulence models and their applications for predicting turbine blade heat transfer and film cooling, and turbine blade internal cooling.

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Editorial ReviewReview
"… the book is a researchers and designers delight with a variety of relevant references which can be used for further research or new designs. The book remains unparalleled from its first edition onwards in the Gas Turbine Heat Transfer area."
?Dr. S.Kishore Kumar, Turbomachinery Design and Gas Turbine Research Establishment, Bangalore, India**Praise for the Previous Edition**
"Aimed mainly at practicing engineers and researchers, this excellent reference source places the main emphasis on cooling technologies for gas turbine engines..."
?*Aslib Book Guide,* Vol. 66, No. 9, September 2001

"The present volume serves as an excellent guide...probably no other has the present book's coherence and uniform excellence...A well-written volume by highly acknowledged and excellent researchers...It is sure to be the standard to which others will refer..."
?R.J. Goldstein, University of Minnesota, *AIAA Journal*, Vol. 40, No. 2, February 2002About the Author
Je-Chin Han is presently Distinguished Professor and holder of the Marcus C. Easterling Endowed Chair and Director of the Turbine Heat Transfer Laboratory at Texas A&M University.Srinath Ekkad is Associate Professor of Mechanical Engineering at Virginia Tech University. Dr. Dutta is an affiliate of General Electric Energy. Users Review**From reader reviews:**
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