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this textbook comprehensively covers the fundamentals and advanced concepts of thermodynamics in a single volume it provides a detailed discussion of advanced concepts that include energy efficiency energy sustainability energy security organic rankine cycle combined cycle power plants combined cycle power plant integrated with organic rankine cycle and absorption refrigeration system integrated coal gasification combined cycle power plants energy

conservation in domestic refrigerators and next generation low global warming potential refrigerants pedagogical features include solved problems and unsolved exercises interspersed throughout the text for better understanding this textbook is primarily written for senior undergraduate students in the fields of mechanical automobile chemical civil and aerospace engineering for courses on engineering thermodynamics thermodynamics and for graduate students in thermal engineering and energy engineering for courses on advanced thermodynamics it is accompanied by teaching resources including a solutions manual for instructors features provides design and experimental problems for better understanding comprehensively discusses power cycles and refrigeration cycles and their advancements explores the design of energy efficient buildings to reduce energy consumption property tables charts and multiple choice questions comprise appendices of the book and are available at routledge com 9780367646288

this book constitutes the thoroughly refereed post proceedings of the international software process workshop spw 2005 help in beijing china in may 2005 the 30 papers presented here together with 11 keynote addresses are organized in topical sections on process content process tools and metrics process management process representation and analysis as well as experience reports

the book details sources of thermal energy methods of capture and applications it describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred it covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage in each case the methods of production and capture and its uses are described in detail it also discusses novel processes and devices used to improve transfer and transformation processes

this book contains best selected research papers presented at ictcs 2023 eighth international conference on information and communication technology for competitive strategies the conference was held in jaipur india during 8 9 december 2023 the book covers state of the art as well as emerging topics pertaining to ict and effective strategies for its implementation for engineering and managerial applications this book contains papers mainly focused on ict for computation algorithms and data analytics and it security the work is presented in three volumes

this book gathers selected high quality research papers presented at the ninth international congress on information and communication technology held in london on february 19 22 2024 it discusses emerging topics pertaining to information and communication technology ict for managerial applications e governance e agriculture e education and computing technologies the internet of things iot and e mining written by respected experts and researchers working on ict the book offers an asset for young researchers involved in advanced studies the work is presented in ten volumes

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