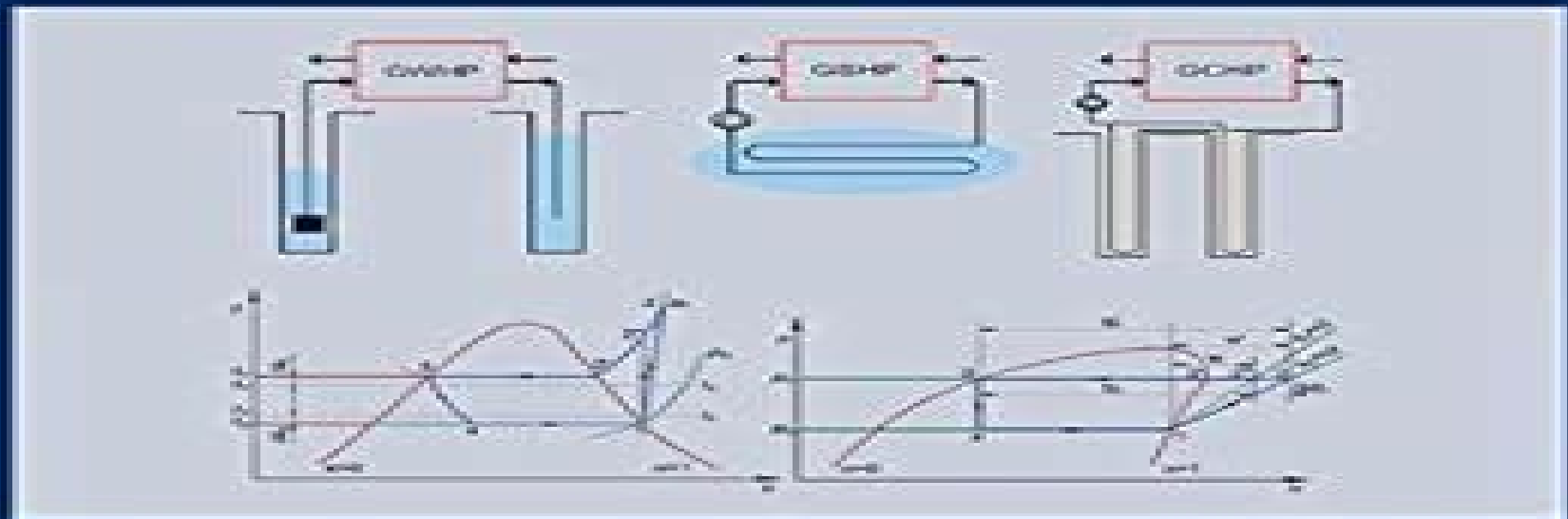


IOAN SARBU
CALIN SEBARCHIEVICI



GROUND-SOURCE HEAT PUMPS

FUNDAMENTALS, EXPERIMENTS AND APPLICATIONS



Ground Source Heat Pumps Fundamentals Experiments And Applications

Lauren Gardner



Ground Source Heat Pumps Fundamentals Experiments And Applications:

Ground-Source Heat Pumps Ioan Sarbu, Calin Sebarchievici, 2015-10-01 *Ground Source Heat Pumps* presents the theory and some of the most recent advances of GSHPs and their implementation in the heating cooling system of buildings The authors explore the thermodynamic cycle with calculation operation regimes and economic indicators and GHG emissions of a vapor compression heat pump They go on to examine substitution strategies of non ecological refrigerants and types of compressors and heat pumps before delving into the different GSHP systems as well as their compared economic energy and environmental performances using classical and optimized adjustment for various operating modes Surface water heat pumps and ground water heat pumps are covered and special focus is given to both vertical and horizontal ground coupled heat pump systems for which modelling and simulation is discussed and experimental systems are described Due to its advanced approach to the subject this book will be especially valuable for researchers graduate students and academics and as reference for engineers and specialists in the varied domains of building services Explores fundamentals and state of the art research including ground coupled heat pump GCHP systems Includes performance assessment and comparison for different types of GSHP numerical simulation models practical applications of GSHPs with details on the renewable energy integration information on refrigerants and economic analysis

Handbook on Energy Efficiency in Buildings Asian Development Bank, 2024-10-01 As Asia's building sector booms this handbook provides practical tools and guidance to design evaluate and finance energy efficient building projects to help make the sector greener and more resilient Explaining how energy efficient construction can help reduce costs lower emissions and improve affordability the handbook offers practical guidance and tools covers key project cycle stages and delves into sustainable heating and cooling strategies It details ways to improve procurement monitoring and evaluation of energy efficiency measures in the building sector while underscoring the need for governments and the private sector to work together to help transition toward a zero carbon building stock

Advances in Building Services Engineering Ioan Sarbu, 2021-01-04 This book provides a comprehensive systematic overview of original theoretical experimental and numerical studies in the building services engineering domain It brings together different strands of the topic guided by the two key features of energy savings and reduction of the pollutant emissions Technical economic and energy efficiency aspects related to the design modelling optimisation and operation of diverse building services systems are explored This book includes various theoretical studies numerical and optimisation models experiments and applications in this field giving an emphasis to indoor environment quality assurance energy analysis modelling and optimisation of heating systems improving the energy performance of refrigeration and air conditioning systems valorising the solar and geothermal energies analysis of thermal energy storage technologies hydraulic simulation and optimisation of water distribution systems and improving the energy efficiency of water pumping With 11 pedagogically structured chapters containing numerous illustrations tables and examples this book provides researchers lecturers

engineers and graduate students with a thorough guide to building service engineering

Comprehensive Energy Systems Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

Solar Heating and Cooling Systems Ioan Sarbu, Calin Sebarchievici, 2016-10-18 Solar Heating and Cooling Systems Fundamentals Experiments and Applications provides comprehensive coverage of this modern energy issue from both a scientific and technical level that is based on original research and the synthesis of consistent bibliographic material that meets the increasing need for modernization and greater energy efficiency to significantly reduce CO₂ emissions Ioan Sarbu and Calin Sebarchievici present a comprehensive overview of all major solar energy technologies along with the fundamentals experiments and applications of solar heating and cooling systems Technical economic and energy saving aspects related to design modeling and operation of these systems are also explored This reference includes physical and mathematical concepts developed to make this publication a self contained and up to date source of information for engineers researchers and professionals who are interested in the use of solar energy as an alternative energy source Includes learning aims chapter summaries problems and solutions to support the theories presented Puts a specific emphasis on the practical application of the technologies in heating and cooling systems Contains calculating equations for the energy and economic index of solar systems

Sustainable Materials for Transitional and Alternative Energy Mufrettin Murat Sari, Cenk Temizel, Celal Hakan Canbaz, Luigi Saputelli, Ole Torsaker, 2021-02-12 Sustainable Materials for Transitional and Alternative Energy a new release in the Advanced Materials and Sensors for the Oil and Gas Industry series comprises a list of processes across the energy industry coupled with the latest research involving advanced nanomaterials Topics include green based nanomaterials towards carbon capture the importance of coal gasification in terms of fossil fuels and advanced materials utilized for fuel cells Supplied from contributing experts in both academic and corporate backgrounds the reference contains a precise balance on the developments applications advantages and challenges remaining The book addresses real solutions as energy companies continue to deliver energy needs while lowering emissions The oil and gas industry are shifting and implementing innovative ways to produce energy in an environmentally friendly way One approach

involves solutions developed using advanced materials and nanotechnology Nanomaterials are delivering new alternatives for engineers making this a timely product for today's market Teaches readers about developments workflows and protocols in advanced materials for today's oil and gas sectors Helps readers gain insights from an experienced list of editors and contributors from both academia and corporate backgrounds Addresses environmental challenges in oil and gas through technological solutions in nanotechnology

Shallow Geothermal Energy Alejandro García Gil, Eduardo Antonio Garrido Schneider, Miguel Mejías Moreno, Juan Carlos Santamarta Cereza, 2022-01-31 This book is the outcome of more than a decade of research and technical development activities at Spain's Geological Survey IGME concerning shallow geothermal energy which were pursued in collaboration with other public bodies and European entities It presents a compilation of papers on the theoretical foundations of and practical aspects needed to understand the thermal regime of the topmost subsoil up to 400 m deep and the exceptional properties that this underground environment offers which make it the ideal thermal reservoir for heating ventilation and air conditioning HVAC In the book's first section the basic theory of thermodynamics as applied to shallow geothermal energy heat transfer and fluid mechanics in the geological porous medium is developed The nature of the subsoil's thermal regime in general and in the urban environment in particular is described The second section introduces readers to the fundamental aspects of thermal installations equipped with geothermal heat pumps describes the types of geothermal exchangers most commonly used and reviews the techniques used to obtain the thermal parameters of the terrain It also discusses the potential environmental impacts of shallow geothermal activity and corresponding management strategies as well as the legal aspects of its regulation for the governance of shallow geothermal resources in the EU in general and Spain in particular In closing the book highlights examples of the methodologies applications developed by IGME in the city of Zaragoza and the Canary Islands The theoretical foundations systematics and concrete applications make the book a valuable reference source for hydrogeologists engineers and specialized technicians alike

Thermal Energy Amritanshu Shukla, Atul Sharma, Karunesh Kant, 2023-12-22 This book presents the essentials of thermal energy storage techniques along with recent innovations and covers in depth knowledge of thermal energy applications Different aspects of thermal energy storage systems are covered ranging from fundamentals to case studies Major topics covered include application of thermal energy in water heating solar cooking and solar pond thermal energy storage materials for indoor comfort in buildings thermal management of battery hydrogen production reducing carbon footprints and so forth Key features Presents current research and technological updates along with applications and market scenarios in thermal energy storage thermal management and applications of thermal energy Explores sensible latent and thermochemical energy storage aspects Emphasizes the need and adequate utilization of abundant heat energy for clean energy perspectives Reviews use of thermal energy in hydrogen production the oil and gas sector along with market analysis Includes pertinent case studies This book is aimed at researchers and graduate students in energy and mechanical

engineering energy storage and renewables Utilization of Thermal Potential of Abandoned Wells Younes Noorollahi, Muhammad Nihal Naseer, Muhammad Mobin Siddiqi, 2022-03-30 Utilization of Thermal Potential of Abandoned Wells Fundamentals Applications and Research is a lucid treatment of the fundamental concepts related to the energy harvesting of abandoned wells The book provides a journey through recent technological developments to harvest energy from abandoned geothermal wells and allows the reader to view the process from a thermodynamic and numerical modeling perspective Various applications and future prospects are also discussed to help inform reader s future work and research Students researchers and engineers will gain a thorough understanding on how to harvest energy from abandoned geothermal wells particularly to make sound thermodynamic and economic evaluations System designers and others engaged in the energy sector will understand how to design and choose the most appropriate technology how to determine its efficiency monitor the facility and how to make informed physical and economical decisions for necessary improvements and environmental assessments Logically works through fundamentals with various examples throughout Provides instruction to simulate thermodynamic models and design efficient systems Presents feasibility studies and applications *Mixed-flow Pumps* Wei Li, Leilei Ji, Ramesh Agarwal, Weidong Shi, Ling Zhou, 2024-05-29 Mixed flow Pumps Modeling Simulation and Measurements Learn to improve and optimize the design and operation of mixed flow pumps Mixed flow pumps have a huge range of applications in agriculture hydroelectric power and other industries that incorporate fluid transport They are centrifugal pumps incorporating the characteristics of both axial and radial pumps to increase the flow rate and discharge pressure Though essential in a variety of industries they pose serious challenges to numerical simulation methods challenges which are starting to be met by the application of computational fluid dynamics using high performance computing Mixed flow Pumps introduces engineers and researchers to this subject and its important applications Incorporating all major varieties of mixed flow pumps used in industrial applications it employs methods from advanced computational fluid dynamics and high precision flow field experimentation to characterize and analyze these crucial technologies Moving from the fundamentals of the technology to its most advanced applications it s an essential resource for engineers and industry practitioners looking to develop their understanding of fluid transport Mixed flow Pumps readers will also find Detailed information on how to design and optimize mixed flow pumps to meet the increasingly stringent industry demands Detailed information on energy performance tests and experiments methods for data analysis entropy production theory CFD solutions using Reynolds Averaged Navier Stokes RANS equations and more An authoritative team with immense global experience in flow pumps and broader industrial experience Mixed flow Pumps is a useful reference for mixed flow pump design by academic researchers including graduate students industry practitioners and test engineers **Geothermal Energy Update** ,1978-12 **Pressure Oscillation in Biomedical Diagnostics and Therapy** Ahmed Al-Jumaily, Lulu Wang, 2022-10-04 Complete and comprehensive reference on the principles of diagnostic and therapeutic techniques using

pressure oscillation Pressure Oscillation in Biomedical Diagnostics and Therapy presents key findings in imaging diagnostics and therapies using high and low frequency pressure waves in a concise and easy to understand way focusing primarily on the cardiovascular and pulmonary systems that utilize acoustics mechanical wave motion The work provides basic background in relevant acoustic theory as well as specific technical information associated with modern medical applications Low frequency acoustics pressure oscillation and some aspects of ultrasound radiation force are also reviewed The principles in the work can be extended to include other areas relating to materials and metal diagnostics To allow for maximum reader comprehension regardless of current expertise on the subject each chapter includes a brief history current developments and practical applications of the topic covered within Furthermore all chapters are based on engineering and physiological principles to deliver practical technologies Sample topics covered in the work include Fundamental principles of pressure oscillation PO discussing the basic principles of pressure oscillation and how they can be formulated into mathematical equations PO in imaging techniques discussing the basic principles of converting pressure oscillation to a tool in biomedical imaging Lung mechanics discussing how each part of the lung is associated with various diseases and how PO can target these parts Asthma discussing the basic concepts of asthma the importance of airway smooth muscle ASM and dynamic behavior of ASM Pressure Oscillation in Biomedical Diagnostics and Therapy links pressure oscillation PO and biomedical diagnostics and therapy for scholars and practitioners It is an essential resource for all professionals who wish to be on the cutting edge of treating lung diseases such as obstructive sleep apnea asthma and respiratory distress syndrome

Energy: a Continuing Bibliography with Indexes ,1979 Buildings Energy Conservation ,1986 Inverse Differential Quadrature Method and its Application in Engineering Saheed Olalekan Ojo, Hasan M. Khalid, Aniket Gopa Chanda, Paul M. Weaver, 2025-10-14 Inverse Differential Quadrature Method and its Application in Engineering Authoritative reference introducing iDQM as a numerical tool to accurately perform high fidelity analyses efficiently for solving problems in engineering governed by higher order ordinary and partial differential equations Inverse Differential Quadrature Method and its Application in Engineering is the first book to comprehensively cover the development of a new numerical solution technique the inverse differential quadrature method iDQM as an indirect approximation technique that can circumvent numerical differentiation induced errors in the solution of systems of higher order differential equations The book s introduction highlights the historical development of numerical methods in the field while emphasising the significance of strong form solution methods Detailed derivations of iDQM formulations in one and two dimensions approximation procedures and error quantification are described The subsequent chapters describe the application of iDQM to many fields of engineering including structures heat flow fluids waves and multiphysics problems Example applications covering linear and nonlinear systems are demonstrated with simple and detailed discretisation steps to aid reader understanding of iDQM MATLAB codes for many of the illustrative examples in the book are provided to ease implementation and practice for

readers Written by a team of highly qualified academics Inverse Differential Quadrature Method and its Application in Engineering discusses topics including High fidelity linear and non linear structural analyses of variable stiffness curved beams arbitrary shaped plates and cylindrical and spherical shells governed by unified formulation kinematics iDQM error formulation and its effect on spectral convergence Accurate and efficient solutions of non structural problems governed by for example Korteweg de Vries KdV wave Helmholtz convection diffusion and steady state heat conduction equations and nonlinear one and two dimensional scalar combustion models Strategies to alleviate mathematical ill conditioning of system matrices employing novel preconditioning techniques Inverse Differential Quadrature Method and its Application in Engineering is an essential reference for researchers and engineers performing advanced numerical analysis across a range of applications in the mechanical aerospace chemical and civil engineering industries along with graduate students in related programs of study

Fabrication of Metallic Pressure Vessels Owen R. Greulich, Maan H. Jawad, 2021-12-09 Fabrication of Metallic Pressure Vessels A comprehensive guide to processes and topics in pressure vessel fabrication Fabrication of Metallic Pressure Vessels delivers comprehensive coverage of the various processes used in the fabrication of process equipment The authors both accomplished engineers offer readers a broad understanding of the steps and processes required to fabricate pressure vessels including cutting forming welding machining and testing as well as suggestions on controlling costs Each chapter provides a complete description of a specific fabrication process and details its characteristics and requirements Alongside the accessible and practical text you ll find equations charts copious illustrations and other study aids designed to assist the reader in the real world implementation of the concepts discussed within the book You ll find numerous appendices that include weld symbols volume and area equations pipe and tube dimensions weld deposition rates lifting shackle data and more In addition to detailed discussions of cutting machining welding and post weld heat treatments readers will also benefit from the inclusion of A thorough introduction to construction materials including both ferrous and nonferrous alloys An exploration of layout including projection and triangulation material thickness and bending allowance angles and channels and marking conventions A treatment of material forming including bending versus three dimensional forming plastic theory forming limits brake forming roll forming and tolerances Practical discussions of fabrication including weld preparation forming vessel fit up and assembly correction of distortion and transportation of vessels Perfect for new and established engineers designers and procurement personnel working with process equipment or in the fabrication field Fabrication of Metallic Pressure Vessels will also earn a place in the libraries of students in engineering programs seeking a one stop resource for the fabrication of pressure vessels

Flow-Induced Vibration Handbook for Nuclear and Process Equipment Michel J. Pettigrew, Colette E. Taylor, Nigel J. Fisher, 2021-10-29 Explains the mechanisms governing flow induced vibrations and helps engineers prevent fatigue and fretting wear damage at the design stage Fatigue or fretting wear damage in process and plant equipment caused by flow induced vibration can lead to

operational disruptions lost production and expensive repairs Mechanical engineers can help prevent or mitigate these problems during the design phase of high capital cost plants such as nuclear power stations and petroleum refineries by performing thorough flow induced vibration analysis Accordingly it is critical for mechanical engineers to have a firm understanding of the dynamic parameters and the vibration excitation mechanisms that govern flow induced vibration Flow Induced Vibration Handbook for Nuclear and Process Equipment provides the knowledge required to prevent failures due to flow induced vibration at the design stage The product of more than 40 years of research and development at the Canadian Nuclear Laboratories this authoritative reference covers all relevant aspects of flow induced vibration technology including vibration failures flow velocity analysis vibration excitation mechanisms fluidelastic instability periodic wake shedding acoustic resonance random turbulence damping mechanisms and fretting wear predictions Each in depth chapter contains the latest available lab data a parametric analysis design guidelines sample calculations and a brief review of modelling and theoretical considerations Written by a group of leading experts in the field this comprehensive single volume resource Helps readers understand and apply techniques for preventing fatigue and fretting wear damage due to flow induced vibration at the design stage Covers components including nuclear reactor internals nuclear fuels piping systems and various types of heat exchangers Features examples of vibration related failures caused by fatigue or fretting wear in nuclear and process equipment Includes a detailed overview of state of the art flow induced vibration technology with an emphasis on two phase flow induced vibration Covering all relevant aspects of flow induced vibration technology Flow Induced Vibration Handbook for Nuclear and Process Equipment is required reading for professional mechanical engineers and researchers working in the nuclear petrochemical aerospace and process industries as well as graduate students in mechanical engineering courses on flow induced vibration

Advanced Multifunctional Lightweight Aerostructures Kamran Behdinan, Rasool Moradi-Dastjerdi, 2021-01-29 Offers a review of the newest methodologies for the characterization and modelling of lightweight materials and structures Advances in Multifunctional Lightweight Structures offers a text that provides and in depth analyses of the thermal electrical and mechanical responses of multi functional lightweight structures The authors noted experts on the topic address the most recent and innovative methodologies for the characterization and modelling of lightweight materials and discuss various shell and plate theories They present multifunctional materials and structures and offer detailed descriptions of the complex modelling of these structures The text is divided into three sections that demonstrate a keen understanding and awareness for multi functional lightweight structures by taking a unique approach The authors explore multi disciplinary modelling and characterization alongside benchmark problems and applications topics that are rarely approached in this field This important book Offers an analyses of the thermal electrical and mechanical responses of multi functional lightweight structures Covers innovative methodologies for the characterization and modelling of lightweight materials and structures Presents a characterization of a wide variety of novel materials Considers

multifunctional novel structures with potential applications in different high tech industries Includes efficient and highly accurate methodologies Written for professionals engineers and researchers in industrial and other specialized research institutions Advances in Multifunctional Lightweight Structures offers a much needed text to the design practices of existing engineering building services and how these methods combine with recent developments

Thermal Explosion Vasily B. Novozhilov, 2025-12-30 Full review of thermal explosion theory featuring a new universal notation as a framework to develop and report research results Summarizing all significant and notable developments made in the field over nearly 100 years Thermal Explosion provides a single authoritative source of information on the subject that connects the theory with examples from practical applications After opening with an introduction to prerequisite technical information the book goes on to cover the mathematical theory behind thermal explosion with detailed explanations of how thermal explosion can develop in different media and under different conditions and strategies and techniques that can be used to prevent thermal explosion Readers will learn how to recognize thermal explosion hazards within technical designs and operation procedures including for lithium ion batteries biofuels biomaterials and microcombustors predict the circumstances that may cause a thermal explosion in a particular design or process and develop optimal mitigating strategies for these risks Each chapter is supported by lecture slides and extensive worked out example problems that introduce readers to a universal notation that can be used as a framework for developing and reporting their own research results Sample topics covered in Thermal Explosion include Steady state theory the Semenov formulation and planar cylindrical and spherical symmetry cases in the Frank Kamenetskii formulation Oscillating boundary conditions dynamical regimes thermal explosion in a region of arbitrary shape and nonsteady thermal explosion theory Thermal explosion in two phase porous systems and spotted diffusion and conjugate thermal explosion One and two variable thermal explosion models of fire flashover Thermal explosion prevention through management of cooling flows and other passive methods inertization and cooling one and two phase media injection Thermal Explosion is an essential up to date reference on the subject for engineering researchers and professionals along with mathematicians and other scientists working in related fields The book is also an excellent learning aid within an academic setting for graduate level researchers or as a supplemental reading in upper level courses

Computer Vision for Structural Dynamics and Health Monitoring Dongming Feng, Maria Q. Feng, 2021-01-11 Provides comprehensive coverage of theory and hands on implementation of computer vision based sensors for structural health monitoring This book is the first to fill the gap between scientific research of computer vision and its practical applications for structural health monitoring SHM It provides a complete state of the art review of the collective experience that the SHM community has gained in recent years It also extensively explores the potentials of the vision sensor as a fast and cost effective tool for solving SHM problems based on both time and frequency domain analytics broadening the application of emerging computer vision sensor technology in not only scientific research but also engineering practice Computer Vision for Structural Dynamics and Health

Monitoring presents fundamental knowledge important issues and practical techniques critical to successful development of vision based sensors in detail including robustness of template matching techniques for tracking targets coordinate conversion methods for determining calibration factors to convert image pixel displacements to physical displacements sensing by tracking artificial targets vs natural targets measurements in real time vs by post processing and field measurement error sources and mitigation methods The book also features a wide range of tests conducted in both controlled laboratory and complex field environments in order to evaluate the sensor accuracy and demonstrate the unique features and merits of computer vision based structural displacement measurement Offers comprehensive understanding of the principles and applications of computer vision for structural dynamics and health monitoring Helps broaden the application of the emerging computer vision sensor technology from scientific research to engineering practice such as field condition assessment of civil engineering structures and infrastructure systems Includes a wide range of laboratory and field testing examples as well as practical techniques for field application Provides MATLAB code for most of the issues discussed including that of image processing structural dynamics and SHM applications Computer Vision for Structural Dynamics and Health Monitoring is ideal for graduate students researchers and practicing engineers who are interested in learning about this emerging sensor technology and advancing their applications in SHM and other engineering problems It will also benefit those in civil and aerospace engineering energy and computer science

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