

Horst Czichos *Editor*

Handbook of Technical Diagnostics

Fundamentals and Application
to Structures and Systems

 Springer

Handbook Of Technical Diagnostics Fundamentals And Application To Structures And Systems

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Handbook Of Technical Diagnostics Fundamentals And Application To Structures And Systems:

Handbook of Technical Diagnostics Horst Czichos, 2013-01-11 This book presents concepts methods and techniques to examine symptoms of faults and failures of structures systems and components and to monitor functional performance and structural integrity The book is organized in five parts Part A introduces the scope and application of technical diagnostics and gives a comprehensive overview of the physics of failure Part B presents all relevant methods and techniques for diagnostics and monitoring from stress strain vibration analysis nondestructive evaluation thermography and industrial radiology to computed tomography and subsurface microstructural analysis Part C covers the principles and concepts of technical failure analysis illustrates case studies and outlines machinery diagnostics with an emphasis on tribological systems Part D describes the application of structural health monitoring and performance control to plants and the technical infrastructure including buildings bridges pipelines electric power stations offshore wind structures and railway systems And finally Part E is an excursion on diagnostics in arts and culture The book integrates knowledge of basic sciences and engineering disciplines with contributions from research institutions academe and industry written by internationally known experts from various parts of the world including Europe Canada India Japan and USA

Diagnostic Systems For Energy Equipments Vitalii P. Babak, Serhii V. Babak, Mykhailo V. Myslovych, Artur O. Zaporozhets, Valeriy M. Zvaritch, 2020-03-19 This book examines key issues in ensuring the operational reliability of energy facilities In this regard it analyzes mathematical models of diagnostic signals that arise during the operation of power equipment reviews the main findings of research into their characteristics presents diagnostics methods for selected types of electric power and heat engineering equipment and covers a range of diagnostic and monitoring systems and devices for power equipment Given its scope the book offers a valuable resource for researchers engineers and specialists as well as instructors and graduate students at institutions of higher learning

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fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book *Advanced Information Networking and Applications* is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications *Scientific and Technical Aerospace Reports* ,1977 *Subject Guide to Books in Print* ,2001 New Technical Books New York Public Library,1994

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