

Ac Induction Motor Acim Control Using Pic18fxx31

Offering simple methods of measuring AC and DC power lines, this highly popular, revised and expanded reference describes the selection of cores, capacitors, mechanical shapes, and styles for the timeliest design, construction, and testing of filters. It presents analyses of matrices of various filter types based on close approximations, observation, and trial and error. Supplying simple parameters and techniques for creating manufacturable, repeatable products, the second edition provides insights into the cause and elimination of common mode noise in lines and equipment, explores new data on spike, pulse, trapezoid, and quasisquare waves, and reviews the latest high-current filters.

The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics. Recent advancements in control theory now make it possible to deal with long-standing problems in AC motors control. This text expertly draws on these developments to apply a wide range of model-based control design methods to a variety of AC motors. Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation, optimal energetic efficiency, and

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operation reliability and safety, by considering online state variable estimation in the absence of mechanical sensors, power factor correction, machine flux optimization, fault detection and isolation, and fault tolerant control. Describing the complete control approach, both controller and observer designs are demonstrated using advanced nonlinear methods, stability and performance are analysed using powerful techniques, including implementation considerations using digital computing means. Other key features:

- Covers the main types of AC motors including triphase, multiphase, and doubly fed induction motors, wound rotor, permanent magnet, and interior PM synchronous motors
- Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles, high speed trains, steel mills, and more
- Includes special focus on sensorless nonlinear observers, adaptive and robust nonlinear controllers, output-feedback controllers, fault detection and isolation algorithms, and fault tolerant controllers

This comprehensive volume provides researchers and designers and R&D engineers with a single-source reference on AC motor system drives in the automotive and transportation industry. It will also appeal to advanced students in automatic control, electrical, power systems, mechanical engineering and robotics, as well as mechatronic, process, and

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applied control system engineers.

Hybrid Fuzzy-pid Controller of an Inverter for AC Induction Motor

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

Electrical drives lie at the heart of most industrial processes and make a major contribution to the comfort and high quality products we all take for granted. They provide the controller power needed at all levels, from megawatts in cement production to milliwatts in wrist watches. Other examples are legion, from the domestic kitchen to public utilities. The modern electrical drive is a complex item, comprising a controller, a static converter and an electrical motor. Some can be programmed by the user. Some can communicate with other drives. Semiconductor switches have improved, intelligent power modules have been introduced, all of which means that control techniques can be used now that were unimaginable a decade ago. Nor has the motor side stood still: high-energy permanent magnets, semiconductor switched reluctance motors, silicon micromotor technology, and soft magnetic materials produced by powder technology are all revolutionising the industry. But the electric drive is an enabling technology, so the revolution is rippling

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throughout the whole of industry.

Annotation A comprehensive guide to the technology underlying drives, motors and control units, this title contains a wealth of technical information for the practising drives and electrical engineer.

AC motors play a major role in modern industrial applications. Squirrel-cage induction motors (SCIMs) are probably the most frequently used when compared to other AC motors because of their low cost, ruggedness, and low maintenance. The material presented in this book is organized into four sections, covering the applications and structural properties of induction motors (IMs), fault detection and diagnostics, control strategies, and the more recently developed topology based on the multiphase (more than three phases) induction motors. This material should be of specific interest to engineers and researchers who are engaged in the modeling, design, and implementation of control algorithms applied to induction motors and, more generally, to readers broadly interested in nonlinear control, health condition monitoring, and fault diagnosis.

Power Electronics: Drive Technology and Motion Control explores the principles and practices of power electronics, emphasizing drive technology and motion control. The book covers the fundamentals of electric machine transformers, drive systems, electric traction and renewable energy in an e-Mobility chapter.

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Supported with illustrations and worked examples, the book covers theory, real life applications, and practical/industrial applications of power electronic drive technology and motion control. This book is intended for engineers, researchers and students who are interested in advanced control of power converters and control specialists who like to explore new applications of control theory. Electronic power control is a coupling of electronic technology and applications from power engineering which rely on one another to provide cleaner electrical power, increased speed, reliability of power and accurate and efficient control of power. Includes illustrated diagrams to cover up-to-date industry applications Features in-depth worked examples to enhance understanding of power electronics theory and related practical applications Covers the fundamentals of electric machine transformers, drive systems, electric traction and renewable energy in an e-Mobility chapter Electrification is an evolving paradigm shift in the transportation industry toward more efficient, higher performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, Advanced Electric Drive Vehicles begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles—i.e., power electronic converters, electric machines, electric motor controllers,

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and energy storage systems. This comprehensive work: Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in advanced electric drive vehicles Contains numerous illustrations, practical examples, case studies, and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications Advanced Electric Drive Vehicles makes an ideal textbook for senior-level undergraduate or graduate engineering courses and a user-friendly reference for researchers, engineers, managers, and other professionals interested in transportation electrification. Environmentally safe engineering is one of the hottest and most controversial topics in technical circles. Though many publications offer theory and intellectual discussion of the topic, this book provides practical, hands-on advice including hints and tips from the nation's top engineers. Green Electronics/Green Bottom Line offers practical advice for engineers and managers who want or need to incorporate environmental issues into the design process. The emerging discipline of Design for

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the Environment (DfE) combines engineering know-how with environmental awareness. Topics include international policy issues such as ISO 14000, materials selection (e.g., for recyclability), manufacturing concerns like no-flux processes, and design issues such as power consumption. Real-world cases show how these elements can be included in everyday designs. Each chapter opens with a topical cartoon and lively story, interview or editorial. The discussion will then move to specific engineering issues and their economic and social context. The last section explores larger possibilities and new directions still to be explored by engineers concerned with education, health, and environmental quality. Contributors include engineers from Motorola, Analog Devices, Dupont, Compaq, Nortel, AMD, and Apple Computer, and academics from universities in the US, Canada, the UK, and Europe, as well as the Rocky Mountain Institute. An everyday guide to environmentally sound electronics design Contributors include top engineers from the biggest electronics manufacturers and most prestigious universities Real-world cases illustrate topics giving concepts the reader can apply immediately

Electric Motors and Drives: Fundamentals, Types and Applications provides information regarding the inner workings of motor and drive system. The book is comprised of nine chapters that cover several aspects and types of motor and drive systems. Chapter 1 discusses electric motors, and Chapter 2 deals with power electronic converters for motor drives. Chapter 3 covers the conventional d.c. motors, while Chapter 4

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tackles inductions motors – rotating field, slip, and torque. The book also talks about the operating characteristics of induction motors, and then deals with the inverter-fed induction motor drives. The stepping motor systems; the synchronous, switched reluctance, and brushless d.c. drives; and the motor/drive selection are also covered. The text will be of great use to individuals who wish to familiarize themselves with motor and drive systems.

Digital Signal Processing 101: Everything You Need to Know to Get Started provides a basic tutorial on digital signal processing (DSP). Beginning with discussions of numerical representation and complex numbers and exponentials, it goes on to explain difficult concepts such as sampling, aliasing, imaginary numbers, and frequency response. It does so using easy-to-understand examples with minimum mathematics. In addition, there is an overview of the DSP functions and implementation used in several DSP-intensive fields or applications, from error correction to CDMA mobile communication to airborne radar systems. This book has been updated to include the latest developments in Digital Signal Processing, and has eight new chapters on: Automotive Radar Signal Processing Space-Time Adaptive Processing Radar Field Orientated Motor Control Matrix Inversion algorithms GPUs for computing Machine Learning Entropy and Predictive Coding Video compression Features eight new chapters on Automotive Radar Signal Processing, Space-Time Adaptive Processing Radar, Field Orientated Motor Control, Matrix Inversion algorithms, GPUs for computing, Machine Learning,

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Entropy and Predictive Coding, and Video compression Provides clear examples and a non-mathematical approach to get you up to speed quickly Includes an overview of the DSP functions and implementation used in typical DSP-intensive applications, including error correction, CDMA mobile communication, and radar systems

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

The 'Power Electronics Handbook' is a complete reference volume for the professional engineer. A special emphasis is placed on the actual design process of systems for sectors ranging from aerospace to domestic, transport and telecommunications.

This book constitutes the refereed post-conference proceedings of the First EAI International Conference on Sustainable Energy for Smart Cities, SESC 2029, held as part of the Smart City 360° Summit event in Braga,

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Portugal, in December 2019. The 23 revised full papers were carefully reviewed and selected from 38 submissions. They contribute to answer complex societal, technological, and economic problems of emergent smart cities. The papers are organized thematically in tracks, starting with mobile systems, cloud resource management and scheduling, machine learning, telecommunication systems, and network management. The papers are grouped in topical sections on electric mobility; power electronics; intelligent, transportation systems; demand response; energy; smart homes; Internet of Things; monitoring; network communications; power quality; power electronics. The content has been carefully designed to meet the requirements of first and second year students of electronic engineering, communications engineering and telecommunications, following full honours degree programs or two-year courses including HNC/HND. A completely new analog electronics textbook for the digital age Coverage ideal for courses with a communications / wireless focus

Mechanical Engineer's Reference Book, 12th Edition is a 19-chapter text that covers the basic principles of mechanical engineering. The first chapters discuss the principles of mechanical engineering, electrical and electronics, microprocessors, instrumentation, and control. The succeeding chapters deal with the applications of computers and computer-integrated engineering systems; the design standards; and materials' properties and selection. Considerable chapters are devoted to other basic knowledge in

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mechanical engineering, including solid mechanics, tribology, power units and transmission, fuels and combustion, and alternative energy sources. The remaining chapters explore other engineering fields related to mechanical engineering, including nuclear, offshore, and plant engineering. These chapters also cover the topics of manufacturing methods, engineering mathematics, health and safety, and units of measurements. This book will be of great value to mechanical engineers.

Today, switched reluctance machines (SRMs) play an increasingly important role in various sectors due to advantages such as robustness, simplicity of construction, low cost, insensitivity to high temperatures, and high fault tolerance. They are frequently used in fields such as aeronautics, electric and hybrid vehicles, and wind power generation. This book is a comprehensive resource on the design, modeling, and control of SRMs with methods that demonstrate their good performance as motors and generators.

This book provides in-depth information on the applications of cannabis products as a legitimate medicine in treating a variety of diseases and disorders in domestic animals. Pharmacology and toxicology of cannabinoids and their effects on the endocannabinoid system, which is involved in the regulation of diverse physiological and cognitive processes, are discussed in detail. Furthermore, the book reviews development and testing of cannabis based medical products and introduces the nutritional components of cannabis plants. Cannabis as a therapeutic in veterinary medicine is

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gaining interest among owners and practitioners.

Numerous studies have been completed or are currently underway that analyze the potential of clinical application of cannabinoid and terpenoid molecules. In this book the authors take a comprehensive look at previous studies in animal and human models and discuss translational applications based on these scientific data. This seminal text serves as a go-to resource for veterinary practitioners on cannabinoid therapy. It will also serve as a foundation for clinicians and researchers interested in this emerging field of veterinary medicine.

Power Electronics Handbook, Fourth Edition, brings together over 100 years of combined experience in the specialist areas of power engineering to offer a fully revised and updated expert guide to total power solutions. Designed to provide the best technical and most commercially viable solutions available, this handbook undertakes any or all aspects of a project requiring specialist design, installation, commissioning and maintenance services. Comprising a complete revision throughout and enhanced chapters on semiconductor diodes and transistors and thyristors, this volume includes renewable resource content useful for the new generation of engineering professionals. This market leading reference has new chapters covering electric traction theory and motors and wide band gap (WBG) materials and devices. With this book in hand, engineers will be able to execute design, analysis and evaluation of assigned projects using sound engineering principles and adhering to the business policies and product/program requirements. Includes a list of leading

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international academic and professional contributors
Offers practical concepts and developments for laboratory test plans
Includes new technical chapters on electric vehicle charging and traction theory and motors
Includes renewable resource content useful for the new generation of engineering professionals
Continued advances in power electronics and computer control technology make possible the implementation of a.c. drive systems in place of d.c. The a.c. systems are usually more efficient, and more reliable, more controllable and require a cheaper motor construction. These are strong commercial reasons driving change. The disadvantage is a degree of complexity in the drive control system; this book explains that complexity. This book provides a hands-on introductory course on concepts of C programming using a PIC® microcontroller and CCS C compiler. Through a project-based approach, this book provides an easy to understand method of learning the correct and efficient practices to program a PIC® microcontroller in C language. Principles of C programming are introduced gradually, building on skill sets and knowledge. Early chapters emphasize the understanding of C language through experience and exercises, while the latter half of the book covers the PIC® microcontroller, its peripherals, and how to use those peripherals from within C in great detail. This book demonstrates the programming methodology and tools used by most professionals in embedded design, and will enable you to apply your knowledge and programming skills for any real-life application. Providing a step-by-step guide to the subject matter, this book will encourage you to alter, expand, and customize code for use in your own projects. A complete

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introduction to C programming using PIC microcontrollers, with a focus on real-world applications, programming methodology and tools Each chapter includes C code project examples, tables, graphs, charts, references, photographs, schematic diagrams, flow charts and compiler compatibility notes to channel your knowledge into real-world examples Online materials include presentation slides, extended tests, exercises, quizzes and answers, real-world case studies, videos and weblinks

The PC revolution, the advent of PDAs, and growth in the use of wireless LANs have changed the way we live our lives. Next on the horizon is the application of new technologies that will change the way we drive our cars. De rigeur for many drivers, electronic passes and GPS systems represent the tip of the iceberg in terms of emerging applications

"Index of current electrical literature," Dec. 1887- appended to v. 5-

This book introduces non-identifier-based adaptive control (with and without internal model) and its application to the current, speed and position control of mechatronic systems such as electrical synchronous machines, wind turbine systems, industrial servo systems, and rigid-link, revolute-joint robots. In mechatronics, there is often only rough knowledge of the system. Due to parameter uncertainties, nonlinearities and unknown disturbances, model-based control strategies can reach their performance or stability limits without iterative controller design and performance evaluation, or system identification and parameter estimation. The non-identifier-based adaptive control presented is an alternative that neither identifies the system nor estimates its parameters but ensures stability. The adaptive controllers are easy to implement, compensate for disturbances and are inherently robust to parameter uncertainties and nonlinearities. For controller implementation only structural system knowledge

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(like relative degree, input-to-state stable zero dynamics and known sign of the high-frequency gain) is required. Moreover, the presented controllers guarantee reference tracking with prescribed asymptotic or transient accuracy, i.e. the tracking error eventually tends to or for all time evolves within an a priori specified region. The book presents the theory, modeling and application in a general but detailed and self-contained manner, making it easy to read and understand, particularly for newcomers to the topics covered

Induction motors are the most important workhorses in industry. They are mostly used as constant-speed drives when fed from a voltage source of fixed frequency. Advent of advanced power electronic converters and powerful digital signal processors, however, has made possible the development of high performance, adjustable speed AC motor drives. This book aims to explore new areas of induction motor control based on artificial intelligence (AI) techniques in order to make the controller less sensitive to parameter changes. Selected AI techniques are applied for different induction motor control strategies. The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations. The control strategies explored include expert-system-based acceleration control, hybrid-fuzzy/PI two-stage control, neural-network-based direct self control, and genetic algorithm based extended Kalman filter for rotor speed estimation. There are also chapters on neural-network-based parameter estimation, genetic-algorithm-based optimized random PWM strategy, and experimental investigations. A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques. Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive

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development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book's Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives, electric vehicles, and electric ship propulsion. Graduate students in intelligent control, applied electric motion, and energy, as well as engineers in industrial electronics, automation, and electrical transportation, will also find this book helpful. Simulation materials available for download at www.wiley.com/go/chanmotor

This book is a collection of research papers and articles presented at the 3rd International Conference on Communications and Cyber-Physical Engineering (ICCCE 2020), held on 1-2 February 2020 at CMR Engineering College, Hyderabad, Telangana, India. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry. This book is a valuable resource for scientists, research scholars and PG students working to formulate their research ideas and find the future directions in these areas. Further, it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering.

The usage of the AC induction motor (ACIM) becomes widely increased in the industrial applications as well as in the domestic usages, due to the good features of the ACIM and the new technologies of the electronic switching topologies. Different approaches are used to control the speed of the

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ACIM. One of these approaches is the Frequency variation of the sinusoidal wave form applied to the ACIM; this is achieved by using DC to AC converter (inverter). This research develops a voltage source inverter (VSI), which its output is a variable frequency sine wave between (20 and 60) Hz to control the speed of the ACIM. Proportional-integral-derivative (PID) controller will be used to improve the inverter output, while the significance of this research is the implementation of the fuzzy logic controller (FLC) as an additional controller and its rule to enhance the performance of the system. Hybrid FLC - PID controller of an inverter for ACIM is described in this research. The speed of the ACIM will be changed according to the change of the generated sine wave frequency. The output voltage error and its derivative are used as input variables for the FLC to adjust the error of the system, and FLC output will be subtracted from the output of the PID controller to reduce the error signal and eventually optimize the dynamic response of the speed controller of the motor. Simulated results show the performance of PID controller and the rule of FLC in improving the speed controller performance. Experimental results show that the variation of reference sign wave at the input can lead to variation at the output sine wave frequency; this is adequate for the variation of the motor speed. Both the VSI and FLC boards were fabricated based on programmable microcontrollers, PIC16F877A was used in the inverter circuitry to generate the pulse width modulation (PWM) and to generate internal sine wave with variable frequency to control the speed of the motor accordingly, while for the FLC circuitry it will process the rule base inference engine and calculate the FLC output upon on that. Using such a PIC controller in the inverter and FLC circuits will simplify the design, minimize the hardware and accordingly reduce the cost, at the same time it will increase the reliability of the proposed system.

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This book presents the outcomes of the Intelligent Communication Technologies and Virtual Mobile Networks Conference (ICICV 2019) held in Tirunelveli, India, on February 14–15, 2019. It presents the state of the art in the field, identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing. In light of the tremendous growth ICT, it examines the rapid developments in virtual reality in communication technology and high-quality services in mobile networks, including the integration of virtual mobile computing and communication technologies, which permits new technologies based on the resources and services of computational intelligence, big data analytics, Internet of Things (IoT), 5G technology, automation systems, sensor networks, augmented reality, data mining, and vehicular ad hoc networks with massive cloud-based backend. These services have a significant impact on all areas of daily life, like transportation, e-commerce, health care, secure communication, location detection, smart home, smart city, social networks and many more.

The advances of microelectromechanical systems (MEMS) and devices have been instrumental in the demonstration of new devices and applications, and even in the creation of new fields of research and development: bioMEMS, actuators, microfluidic devices, RF and optical MEMS. Experience indicates a need for MEMS book covering these materials as well as the most important process steps in bulk micro-machining and modeling. We are very pleased to present this book that contains 18 chapters, written by the experts in the field of MEMS. These chapters are groups into four broad sections of BioMEMS Devices, MEMS characterization and micromachining, RF and Optical MEMS, and MEMS based Actuators. The book starts with the emerging field of bioMEMS, including MEMS coil for retinal

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prostheses, DNA extraction by micro/bio-fluidics devices and acoustic biosensors. MEMS characterization, micromachining, macromodels, RF and Optical MEMS switches are discussed in next sections. The book concludes with the emphasis on MEMS based actuators.

With today's electrical and electronics systems requiring increased levels of performance and reliability, the design of robust EMI filters plays a critical role in EMC compliance. Using a mix of practical methods and theoretical analysis, EMI Filter Design, Third Edition presents both a hands-on and academic approach to the design of EMI filters and the selection of components values. The design approaches covered include matrix methods using table data and the use of Fourier analysis, Laplace transforms, and transfer function realization of LC structures. This edition has been fully revised and updated with additional topics and more streamlined content. New to the Third Edition Analysis techniques necessary for passive filter realization Matrix method and transfer function analysis approaches for LC filter structure design A more hands-on look at EMI filters and the overall design process Through this bestselling book's proven design methodology and practical application of formal techniques, readers learn how to develop simple filter solutions. The authors examine the causes of common- and differential-mode noise and methods of elimination, the source and load impedances for various types of input power interfaces, and the load impedance aspect of EMI filter design. After covering EMI filter structures, topologies, and components, they provide insight into the sizing of components and protection from voltage transients, discuss issues that compromise filter performance, and present a goal for a filter design objective. The text also includes a matrix method for filter design, explains the transfer function method of LC structures and their equivalent polynomials, and gives a

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circuit design example and analysis techniques. The final chapter presents packaging solutions of EMI filters. This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2019), held at the University of Huddersfield, UK in September 2019, and jointly organized by the University of Huddersfield and COMADEM International. The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management. The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring, maintenance, structural health monitoring, non-destructive testing and other allied areas. Bringing together expert contributions from academia and industry, this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques.

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