C S Rangan G R Sarma And V S Mani

This text offers comprehensive coverage of electronic instruments and electronics-aided measurements, highlighting the essential components of digital electronic instrumentation and the principles involved in electrical and electronic measurement processes. It also explains the stages involved in data acquisition systems for acquiring, manipulating, processing, storing, displaying and interpreting the sought-for data. The principal instruments presented in this book include cathode ray oscilloscope (CRO), analyzers, signal generators, oscillators, frequency synthesizers, sweep generators, function generators and attenuators. Besides, the book covers several laboratory meters such as phase meters, frequency meters, Q-meters, wattmeters, energy meters, power factor meters, and measurement bridges. Also included are a few important sensors and transducers which are used in the measurement of temperature, pressure, flow rate, liquid level, force, etc. The book also emphasizes the growing use of fibre optic instrumentation. It explains some typical fibre optic sensing systems including the fibre optic gyroscope. Some applications of optical fibre in biomedical area are described as well. The book is intended for a course on Electronic Measurements and Instrumentation prescribed for B.E./B.Tech.

students of Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electronics and Control Engineering, and Electronics and Computer Engineering. It will also be a useful book for diploma level students pursuing courses in electrical/electronics/instrumentation disciplines. A variety of worked-out examples and exercises serve to illustrate and test the understanding of the underlying concepts and principles. ADDITIONAL FEATURES • Provides the essential background knowledge concerning the principles of analogue and digital electronics • Conventional techniques of measurement of electrical quantities are also presented • Shielding, grounding and EMI aspects of instrumentation are highlighted • Units, dimensions, standards, measurement errors and error analysis are dealt with in the appendices • Techniques of automated test and measurement systems are briefly discussed in an appendix

Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Infectious diseases are the leading cause of death globally, particularly among

children and young adults. The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases. Major Infectious Diseases identifies feasible, cost-effective packages of interventions and strategies across delivery platforms to prevent and treat HIV/AIDS, other sexually transmitted infections, tuberculosis, malaria, adult febrile illness, viral hepatitis, and neglected tropical diseases. The volume emphasizes the need to effectively address emerging antimicrobial resistance, strengthen health systems, and increase access to care. The attainable goals are to reduce incidence, develop innovative approaches, and optimize existing tools in resource-constrained settings.

"Customer Success will become the authoritative book of the emerging Customer Success industry and target any business that is trying to focus, or re-focus, on customers and will be applicable to all customer management roles such as Account Manager, Customer Advocacy, Client Relationship Manager, and Customer Success Manager along with the leadership of those organizations. Customer Success will address the pains of how to start creating a customer-centric company and how to think strategically about Customer Success - how to organize, compensate, find a leader, measure, etc. Customer Success has exploded as one of the hottest B2B movements since the advent of the

subscription business model"--

Pneumatic, hydraulic and allied instrumentation schemes have given way to electronic schemes in recent years thanks to the rapid strides in electronics and allied areas. Principles, design and applications of such state-of-the-art instrumentation schemes form the subject matter of this book. Through representative examples, the basic building blocks of instrumentation schemes are identified and each of these building blocks discussed in terms of its design and interface characteristics. The common generic schemes synthesized with such building blocks are dealt with subsequently. This forms the scope of Part I. The focus in Part II is on application. Displacement and allied instrumentation, force and allied instrumentation and process instrumentation in terms of temperature, flow, pressure level and other common process variables are dealt with separately and exhaustively. Despite the diversity in the sensor principles and characteristics and the variety in the applications and their environments, it is possible judiciously to carve out broad areas of application for each type of sensor and the instrumentation built around it. The last chapter categorises instrumentation schemes according to their different levels of complexity. Specific practical examples - especially at involved complexity levels - are discussed in detail.

In this remarkable groundbreaking book, a documentarian and conservationist, determined to dispel misplaced fear and correct common misconceptions, explores in-depth the secret lives of sharks—magnificent creatures who play an integral part in maintaining the health of the world's oceans and ultimately the planet. From the Jaws blockbusters to Shark Week, we are conditioned to see sharks as terrifying cold-blooded underwater predators. But as Ocean Guardian founder William McKeever reveals, sharks are evolutionary marvels essential to maintaining a balanced ecosystem. We can learn much from sharks, he argues, and our knowledge about them continues to grow. The first book to reveal in full the hidden lives of sharks, Emperors of the Deep examines four species—Mako, Tiger, Hammerhead, and Great White—as never before, and includes fascinating details such as: Sharks are 50-million years older than trees; Sharks have survived five extinction level events, including the one that killed off the dinosaurs; Sharks have electroreception, a sixth-sense that lets them pick up on electric fields generated by living things; Sharks can dive 4,000 feet below the surface; Sharks account for only 6 human fatalities per year, while humans kill 100 million sharks per year. McKeever goes back through time to probe the shark's pre-historic secrets and how it has become the world's most feared and most misunderstood predator, and takes us on a pulse-pounding tour around the world and deep under the water's surface, from the frigid waters of the Arctic Circle to the coral reefs of the tropical Central Pacific, to see sharks up close in their natural habitat. He also interviews ecologists, conservationists, and world-renowned shark experts, including the founders of Greenpeace's Rainbow Warrior, the head of the Massachusetts Shark Research Program, and the self-professed "last great shark hunter." At once a deep-dive into the misunderstood world of sharks and an urgent call to protect them, Emperors of the Deep

celebrates this wild species that hold the key to unlocking the mysteries of the ocean—if we can prevent their extinction from climate change and human hunters.

Instrumentation and control system is the heart of all processing industries. No process can run without the aid of instrumentation. Therefore, sometimes it is said that instruments are eyes of process through which a process operators visualize the process behaviour. Instrumentation and control concepts have undergone a drastic change over the past few years. The book is meant for the graduate level course of Instrumentation and Process Control (Electrical & Electronics and Instrumentation & Control disciplines). The topics have been divided in 8 chapters. The first three are devoted to Transducers. In these chapters, stress has been given on Transducer Signal Selection, Pneumatic Transmitters, Smart Transmitters, Special Class Thermocouple, Nucleonic Level Gage, Electronic Level Gage & others. In the chapter on Telemetry, pneumatic transmissions have been added in addition to usual topics. In the chapter Process Control, three element control systems have been described through examples of Boiler Drum Level Control. And lastly in Recent Developments & Microprocessor Based Instrumentation System, development of PLC and distributed control system and instrumentation communication protocol have been described in greater detail with suitable examples. The book is a perfect match of instruments that are still in use and which have been recently developed.

A presentation of detailed theory and computer programs which can be used for stress analysis. The finite element formulations are developed through easy-to-follow derivations for the analysis of plane stress or strain and axisymmetric solid, plate-bending, three dimensional solid and shell problems.

With the advancement of technology in intergrated circuits, instruments are becoming increasingly compact and accurate. This revision covers in detail the digital and microprocessor-based instruments. The systematic discussion of their working principle, operation, capabililties, and limitions will facilitate easy understanding of the instruments as well as guide the user select the right instrument for an application.

The definitive “Customer Success Manager How-To-Guide” for the CSM profession from Gainsight, who brought you the market-leading Customer Success The Customer Success Manager has become a critical asset to organizations across the business landscape. As the subscription model has spread from the cloud and SaaS to more sectors of the economy, that pivotal role will only grow in importance. That’s because if you want to compete and thrive in this new environment, you need to put the customer at the center of your strategy. You need to recognize you’re no longer selling just a product. You’re selling an outcome. Customer Success Managers (CSM) are committed to capturing and delivering those outcomes by listening to their customers, understanding their needs, and adapting products and services to drive success. Although several existing resources address the customer success imperative, there is no authoritative instruction manual for the CSM profession—until now. The Customer Success Professional’s Handbook is the definitive reference book for CSMs and similar roles in the field. This practical, first-of-its-kind manual fills a significant gap in professional customer success literature, providing the knowledge every CSM needs to succeed—from the practitioner level all the way to senior leadership. The authors—acknowledged experts in building, training, and managing Customer Success teams—offer real-world guidance and practical advice for aspiring and experienced CSMs alike. The handbook is written by practioners for practioners.

An indispensable resource for front-line Customer Success Managers, this much-needed book: Demonstrates how to build, implement, and manage a Customer Success team Helps new CSMs develop their skills and proficiency to be more employable and grow in their careers Provides clear guidance for managers on how to hire a stellar CSM Presents practical tactics needed to drive revenue growth during renewal, expansion, and customer advocacy opportunities Explains proven methods and strategies for mentoring CSMs throughout their careers Offers valuable insights from Gainsight, the Customer Success Company, and the broader customer success community with more than a dozen of the industry's most respected leaders contributing their perspectives Currently, with over 70,000 open positions, Customer Success Manager in one of the fastest-growing jobs in the world. The Customer Success Professional's Handbook: How to Thrive in One of the World's Fastest Growing Careers—While Driving Growth For Your Company will prove to be your go-to manual throughout every stage of your CSM career.

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples,

multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Fluid mechanics continues to dominate the world of engineering. This book bridges the gap between first and higher level text books on the subject. It shows that the approximate approaches are essentially globally averaged versions of the local treatment, that in turn is covered in considerable detail in the second edition.

This well-organized book is intended for the undergraduate students of Electrical, Electronics and Communications, Computer, Instrumentation and Instrumentation and Control Engineering; and postgraduate students of science in Electronics, Physics and Instrumentation. Data acquisition being the core of all PC-based measurements and control instrumentation systems engineering, this book presents detailed discussions on PC bus based data acquisition, remote data acquisition, GPIB data acquisition and networked data acquisition configurations. This book also describes sensors, signal-conditioning and principles of PC-based data acquisition. It provides several latest and advanced techniques. This book stresses the need for understanding the use of Personal Computers in measurement and control instrumentation applications. KEY

FEATURES : • Provides several laboratory experiments to help the readers to gain hands-on experience in PC-based measurement and control. • Provides a number of review questions/problems (with solutions to the odd numbered problems) and objective type questions with solutions. • Presents a number of working circuits, design and programming examples. • Presents comparison of properties, features and characteristics of different bus systems, interface standards, and network protocols. • Includes the advanced techniques such as sigma–delta converter, RS-485, I2C bus, SPI bus, FireWire, IEEE-488.2, SCPI and Fieldbus standards.

Instrumentation Devicesand SystemsTata McGraw-Hill EducationInstrumentationDevices and SystemsInstrumentation and Process ControlI. K. International Pvt Ltd

For the first time in India, we have a comprehensive introductory book on Basic Electrical Engineering that caters to undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The book provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book

covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Presents state-of-the-art research and case studies from over 150 Design Manufacturing professionals across the globe in the areas of:* CAD/CAM* Product Design and Life Cycle Management* Rapid Prototyping and Tooling* Manufacturing Processes* Micromachining and Miniaturisation* Automation* Mechanism and Robotics* Artificial Intelligence* Supply Chain and Logistics Management* Material Handling Systems* Human Aspects in Engineering

Electronic Measurements and Instrumentation provides a comprehensive blend of the theoretical and practical aspects of electronic measurements and instrumentation. Spread across eight chapters, this book provides a comprehensive coverage of each topic in the syllabus with a special focus on oscilloscopes and transducers. The key features of the book are clear illustrations and circuit diagrams for enhanced comprehension; points to remember that help students grasp the essence of each chapter; objective-type questions, review questions, and unsolved problems provided at the end of each chapter, which help students prepare for competitive examinations; solved numerical problems and examples are provided, which enable the reader to understand design aspects better and to enable students to comprehend basic

principles; and summaries at the end of each chapter that help students recapitulate all the concepts learnt.

Alternative assets such as fine art, wine, or diamonds have become popular investment vehicles in the aftermath of the global financial crisis. Correlation with classical financial markets is typically low, such that diversification benefits arise for portfolio allocation and risk management. Cryptocurrencies share many alternative asset features, but are hampered by high volatility, sluggish commercial acceptance, and regulatory uncertainties. This collection of papers addresses alternative assets and cryptocurrencies from economic, financial, statistical, and technical points of view. It gives an overview of their current state and explores their properties and prospects using innovative approaches and methodologies.

First Published in 1968. Routledge is an imprint of Taylor & Francis, an informa company.

THE PERFECT EURO 2020 READ from the manager who took England to their first major final in 55 years 'Fantastic ... I've told my son Noah, aged 11, you have to read this ... I can't tell you how much I loved it because it talks about confidence, and I struggled with confidence' CHRIS EVANS 'I loved this - full of wonderful advice I can't wait to share with my children.' HOLLY WILLOUGHBY

'Never puts a word wrong. Isn't Gareth Southgate simply the most inspiring leader in England?' KRISHNAN GURU-MURTHY 'Gareth Southgate sticks out a mile in public life because he is thoughtful, intelligent, generous, courageous and humane.' SATHNAM SANGHERA England manager Gareth Southgate has spent his career inspiring young people to think positively and reach their best, from the England men's and Under-21 team to his work with the Prince's Trust. _____ YOU have the potential to make ANYTHING POSSIBLE. In this hugely positive and helpful book for readers aged 12 and up, Gareth gives YOU the tools to be confident, resilient and to overcome your own challenges for your exciting journey ahead, wherever it takes you. BE BRAVE Bravery is not just the kind of heroic act that earns a medal. It's the quality we need to step out of our comfort zones and take on new challenges. BE KIND A force for good that comes from the heart, kindness changes lives. It opens up opportunities and can be our greatest strength. FOLLOW YOUR DREAMS We all have a story to tell in life. It's down to us what it will be about. So, let's begin writing YOUR STORY - and make it one that truly shines. _____ 'Inspirational and honest - just like the man himself.' BEAR GRYLLS 'An inspirational book' THE SUN 'It really is a great book ... lots of really nice tips for confidence, staying strong, glass-half-full mentality, what

makes a good team' CHRIS MOYLES 'I feel that the lessons you're sharing, the wisdom that you're sharing, has relevance for all of us, whether football fans or non-football fans. And that's because these are some quite core lessons for life' DR RANGAN CHATTERJEE 'Southgate's analytical mind is stamped across the pages of the book; his meticulousness, his love of clarity and process. He offers tips and life lessons - focus on what you can control, do not compare yourself with others, dare to try even if it means slipping up. The tone is easy, upbeat and the messages are drummed home gently, always linking to one another ... what shines through is the warmth and inclusivity of his leadership style.' THE GUARDIAN

This well-received and widely adopted text, now in its Second Edition, continues to provide an in-depth analysis of the fundamental principles of Transducers and Instrumentation in a highly accessible style. Professor D.V.S. Murty, who has pioneered the cause of development of Instrumen-tation Engineering in various engineering institutes and universities across the country, compresses his long and rich experience into this volume. He gives a masterly analysis of the principles and characteristics of transducers, common types of industrial sensors and transducers. Besides, he provides a detailed discussion on such topics as signal processing, data display, transmission and telemetry systems, all the while focusing on the latest developments. The text is

profusely illustrated with examples and clear-cut diagrams that enhance its value. NEW TO THIS EDITION : To meet the latest syllabi requirements of various universities, three new chapters have been added: CHAPTER 12: Developments in Sensor Technology CHAPTER 13: Sophistication in Instrumentation CHAPTER 14: Process Control Instrumentation Primarily intended as a text for the students pursuing Instrumentation and Control Engineering, this book would also be extremely useful to professional engineers and those working in R&D organisations.

The devastating impacts of tsunamis have received increased focus since the Indian Ocean tsunami of 2004, the most destructive tsunami in over 400 years of recorded history. The tsunamis that occurred as a result of the earthquake in Japan in March 2011 further emphasized the need for detection, monitoring, and early-warning technologies. This professional reference is the first of its kind: it provides a globally inclusive review of the current state of tsunami detection technology and will be a much-needed resource for oceanographers and marine engineers working to upgrade and integrate their tsunami warning systems. It focuses on the two main tsunami warning systems (TWS): International and Regional. Featured are comparative assessments of detection, monitoring, and real-time reporting technologies. The challenges of detection through remote measuring stations are also addressed, as well as the historical and scientific aspects of tsunamis. Offers readers the only source of practical content on the technological details of the subject Written by a tsunami detection and monitoring

expert who has 32 years of experience in the field Companion web site featuring multi-media components, timely updates on fast-paced technological developments, and an online forum where scientists can exchange ideas, discuss technological updates and provide the author with valuable feedback

Vibrations and Acoustics: Measurement and Signal Analysis is the culmination of the author's more than two decades of teaching and research experience in these areas. It will serve as a source of reference for postgraduate students, researchers, academicians, practicing engineers and professionals in the field of vibration and acoustics.