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The stability of rock slopes is an important issue in both civil and mining engineering. On civil projects, rock cuts must be safe from rock falls and large-scale slope instability during both construction and operation. In open pit mining, where slope heights can be many hundreds of meters, the economics of the operation are closely related to the steepest stable slope angle that can be mined. This extensively updated version of the classic text, Rock Slope Engineering by Hoek and Bray, deals comprehensively with the investigation, design and operation of rock slopes. Investigation methods include the collection and interpretation of geological and groundwater data, and determination of rock strength properties, including the Hoek Brown rock mass strength criterion. Slope design methods include the theoretical basis for the design of plane, wedge, circular and toppling failures, and design charts are provided to enable rapid checks of stability to be carried out. New material contained in this book includes the latest developments in earthquake engineering related to slope stability, probabilistic analysis, numerical analysis, blasting, slope movement monitoring and stabilization methods. The types of stabilization include rock anchors, shotcrete, drainage and scaling, as well as rock fall protecting methods involving barriers, ditches, nets and sheds. Rock Slopes: Civil and Mining Engineering contains both worked examples illustrating data interpretation and design methods, and chapters on civil and mining case studies. The case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions. The book provides over 300 carefully selected references for those who wish to study the subject in greater detail. It also includes an introduction by Dr. Evert Hoek. This textbook has been written especially for the courses of B.E/B.Tech. for all Technical Universities of India. It contains twenty-two chapters in all. Besides this, an exhaustive set of "Short Answer Question" and a section on "GATE and UPSC Examinations' Questions with Answers/Solutions" have been added at the end to make this treatise comprehensive and complete book on this subject. This brief paperback is concerned with presenting basic concepts in tests and measurement and contributing to a more intelligent understanding and use of psychological and education tests. Designed for teachers, practitioners in the field. Measurement and Evaluation in Human Performance, Third Edition, offers unmatched, in-depth instruction in measurement and evaluation techniques. Thoroughly revised and updated, the third edition features a new section on epidemiology and further develops international perspectives. This edition also features improved readability in measurement statistics and enhanced efficiency in solving measurement and evaluation problems through the use of the Statistical Package for the Social Sciences (SPSS). Additional features that are new to this edition: -Revised first chapter that lays the groundwork for improved learning throughout the text -Inclusion of a specific downloadable data set that is used as an example in many chapters -Removal of outdated and complicated statistical techniques, eliminating the need for a background in higher-level mathematics -Additional computer tasks in each chapter that tie earlier learning to specific applications -Decision scenarios similar to those made by human performance professionals to help students apply decision making skills to practical, real-life problems The text also increases the number of problem sets and places a greater emphasis on student-friendly learning through its learning aids, including chapter objectives, measurement and evaluation challenges, highlight features, mastery items, and new computer tasks for each chapter. Measurement and Evaluation in Human Performance, Third Edition, will appeal to students by engaging them in the material to increase their comprehension, and to

professionals through its depth of information and ease in locating it. Includes an online study guide! To assist students using the text, *Measurement and Evaluation in Human Performance, Third Edition*, has a companion online student study guide that allows students to interactively practice, review, and develop their understanding of measurement and evaluation processes so that they can make strong grades and valid decisions. Students will receive free access to the study guide with the purchase of a new text, or it may be purchased as a separate component. The online study guide is designed to help students learn, understand, and practice the main concepts of each chapter. Students will find selected answers to mastery items from the text, homework problems, selected homework answers, data matrixes to download, and multiple choice quizzes designed to test their knowledge of the textbook material. They will also find lecture outlines created by the authors to help them learn the key concepts, as well as links to related sites on the Web and a variety of test tips.

*A Sound Introduction to Radiation Detection and Measurement for Newcomers to Nuclear Science and Engineering* Since the publication of the bestselling third edition, there have been advances in the field of radiation detection, most notably in practical applications. Incorporating these important developments, *Measurement and Detection of Radiation, Fourth Edition* provides the most up-to-date and accessible introduction to radiation detector materials, systems, and applications. New to the Fourth Edition are new chapters on nuclear forensics and nuclear medicine instrumentation, covering basic principles and applications as well as open-ended problems that encourage more in-depth research. Updated references and bibliographies. New and expanded problems. As useful to students and nuclear professionals as its popular predecessors, this fourth edition continues to carefully explain the latest radiation detector technology and measurement techniques. It also discusses the correct ways to perform measurements and analyze results following current health physics procedures.

*Power theft is a silent crime that causes huge loss of revenue to power utilities. Despite advanced managerial and technical efforts to crack down on power thieves, power distribution entities are struggling hard to constrain the unscrupulous ways used to steal power. There is no panacea for curbing power theft, and utilities have to develop their own ways. This book presents a vivid account of technical and administrative solutions that can go a long way in nipping the problem in bud. The most striking feature of the book is that it uses suitable photographs to analyse the problems from various angles. It provides graphic description of the modus operandi of power thieves and uncovers their cleverness and imagination in pilfering electricity. This book is primarily intended for the undergraduate students of electrical engineering or electrical and electronics engineering. Besides, it is also useful for the professionals engaged in electricity distribution sector, power utilities, power training institutes, energy auditors and law enforcement authorities.*

**WHAT'S NEW TO THE FOURTH EDITION?**

- Incorporates the latest developments and information of the field with updated data.
- Covers a new chapter on Demand Side Management (DSM), which has now become a mandatory topic of assignment for utilities across the world.
- Provides references to judicial decisions on [Mandatory Registration of FIR in Cognizable Offence] and [Whether Amendment made to Electricity Act is applicable to pending cases].

Ideal for classroom use or self-study, this newly revised best-selling book has provided thousands of students, technicians, sales people, and others with a practical introduction to the technologies, systems, and strategies involved in industrial process control. The fourth edition takes the same proven intuitive approach of previous editions. Each chapter begins with basic definitions and mathematical concepts that allow readers to become well versed in the principles necessary to understand the variables that affect process control systems. New features in the fourth edition include improved coverage of analytical measurement and control, and the addition of sections on the international standard for PLC languages; process visualization; and personal computer-based control systems. The book also includes solutions to exercises that make it more suitable for self-study. A bonus CD-ROM is also included!

*Forest mensuration* – the science of measurement applied to forest vegetation and forest products – holds value for basic ecology as well as sustainable forest management. As demands on the world's forests have grown, scientists and professionals are increasingly called on to quantify forest composition, structure, and the goods and services forests provide. Grounded in geometry, sampling theory, and ecology as well as practical field experience, forest mensuration offers opportunities for creative problem solving and critical thinking. This fifth edition of the classic volume, *Forest Mensuration*, includes coverage of traditional and emerging topics, with attention to SI and Imperial units throughout. The book has been reorganised from the fourth edition to better integrate non-timber and ecological aspects of forest mensuration at the tree, stand, forest, and landscape scales throughout. The new edition includes new chapters that specifically address the integration of remotely sensed data in the forest inventory process, and inventory methods for dead and downed wood. One unifying theme, not only for traditional forestry but for the non-timber inventory and for remote sensing, is the use of covariates to make sampling more efficient and spatially explicit. This is introduced in the introductory chapter on statistics and the chapter on sampling designs has been restructured to highlight this approach and lay the foundation for further learning. New examples will be developed throughout the textbook with an emphasis on current issues and international practice. Students in applied forestry programs will find ample coverage of forest products and timber inventory, while expanded material on biodiversity, biomass and carbon inventory, downed dead wood, and the growing role of remote sensing in forest assessment will be valuable to a broader audience in applied ecology. The importance of this fourth edition of *Educational Measurement* is to extensively update and extend the topics treated in the previous three editions. As such, the fourth edition documents progress in the field and provides critical guidance to the efforts of new

generations of researchers and practitioners. This new edition of Educational Measurement is edited by Robert Brennan and jointly sponsored by ACE and the National Council on Measurement in Education. It provides in-depth treatments of important measurement topics, and the chapter authors are acknowledged experts in their respective fields. NATIONAL COUNCIL ON MEASUREMENT IN EDUCATION is an organization incorporated for scientific, educational, literary, and charitable purposes: i.e., advancing of the science of measurement instruments and procedures; improving applications of measurement; and disseminating knowledge about measurement theory, techniques, and instrumentation. Designated a Doody's Core Title! "This is a valuable resource for readers seeking basic to advanced information on measurement. It should be on the bookshelf of all researchers, and a requirement for graduate nursing students." Score: 100, 5 stars--Doody's Medical Reviews "...this book is a wonderful shelf reference for nurse researcher mentors and investigators who may need to explore content or use content to design, test, select, and evaluate instruments and methods used in measuring nurse concepts and outcomes."--Clinical Nurse Specialist This fourth edition presents everything nurses and health researchers need to know about designing, testing, selecting, and evaluating instruments and methods for measuring in nursing. Thoroughly updated, this fourth edition now contains only the latest, most cutting-edge measurement instruments that have direct applicability for nurses and health researchers in a variety of roles, including students, clinicians, educators, researchers, administrators, and consultants. Using clear and accessible language, the authors explain in detail, and illustrate by example, how to conduct sound measurement practices that have been adequately tested for reliability and validity. This edition is enriched with topics on the leading edge of nursing and health care research, such as measurement in the digital world, biomedical instrumentation, new clinical data collection methods, and methods for measuring quality of care. Key features: Provides new and emerging strategies for testing the validity of specific measures Discusses computer-based testing: the use of Internet research and data collection Investigates methods for measuring physiological variables using biomedical instrumentation Includes information on measurement practices in clinical research, focusing on clinical data collection methods, such as clinimetrics Identifies the challenges of measuring quality of care and how to address them Literally an entire course between two covers, Measurement Uncertainty: Methods and Applications, Fourth Edition, presents engineering students with a comprehensive tutorial of measurement uncertainty methods in a logically categorized and readily utilized format. The new uncertainty technologies embodied in both U.S. and international standards have been incorporated into this text with a view toward understanding the strengths and weaknesses of both. The book is designed to also serve as a practical desk reference in situations that commonly confront an experimenter. The text presents the basics of the measurement uncertainty model, non-symmetrical systematic standard uncertainties, random standard uncertainties, the use of correlation, curve-fitting problems, and probability plotting, combining results from different test methods, calibration errors, and uncertainty propagation for both independent and dependent error sources. The author draws on years of experience in industry to direct special attention to the problem of developing confidence in uncertainty analysis results and using measurement uncertainty to select instrumentation systems. A combination of two texts authored by Patrick Dunn, this set covers sensor technology as well as basic measurement and data analysis subjects, a combination not covered together in other references. Written for junior-level mechanical and aerospace engineering students, the topic coverage allows for flexible approaches to using the combination book in courses. MATLAB® applications are included in all sections of the combination, and concise, applied coverage of sensor technology is offered. Numerous chapter examples and problems are included, with complete solutions available. The new, revised edition of the standard volume on forest measurement The updated edition of this long-standing classic, Forest Mensuration, Fourth Edition, provides new, complete coverage of current measurement practices and technological applications that expand the role of forest mensuration to include monitoring forest resources. This integrated approach takes into account all the resources of a forest, including such nontimber vegetation parameters as regeneration, lesser vegetation, woody detritus, and carbon. Providing solid working knowledge of all concepts and methods, along with guidance for further study, featured material includes: \* Applications of personal computers, global positioning, and GIS \* Key concepts of tree-stand parameters and principles of measurement \* Fundamental concepts of sampling methods \* English and metric units Forest Mensuration, Fourth Edition, is a valuable resource for students in forestry and forestry-related studies. Now in its fourth edition, this successful book provides readers with an in-depth introduction to the theory of engineering measurements, measurement system performance, and instrumentation. Emphasis is placed on the use of uncertainty analysis in the design of measurement systems and the statistical nature of engineering variables. Readers will also gain a better understanding of concepts related to system behavior, sampling, and spectral analysis while utilizing the new interactive CD-ROM. Measurement and Data Analysis for Engineering and Science, Fourth Edition, provides up-to-date coverage of experimentation methods in science and engineering. This edition adds five new "concept chapters" to introduce major areas of experimentation generally before the topics are treated in detail, to make the text more accessible for undergraduate students. These feature Measurement System Components, Assessing Measurement System Performance, Setting Signal Sampling Conditions, Analyzing Experimental Results, and Reporting Experimental Results. More practical examples, case studies, and a variety of homework problems have been added; and MATLAB and Simulink resources have been updated. A combination of two texts authored by Patrick Dunn, this set covers sensor technology as well as basic

measurement and data analysis subjects, a combination not covered together in other references. Written for junior-level mechanical and aerospace engineering students, the topic coverage allows for flexible approaches to using the combination book in courses. MATLAB® applications are included in all sections of the combination, and concise, applied coverage of sensor technology is offered. Numerous chapter examples and problems are included, with complete solutions available. This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book. New York : John Wiley and Sons, [1986]. The fourth edition of this highly readable and well-received book presents the subject of measurement and instrumentation systems as an integrated and coherent text suitable for a one-semester course for undergraduate students of Instrumentation Engineering, as well as for instrumentation course/paper for Electrical/Electronics disciplines. Modern scientific world requires an increasing number of complex measurements and instruments. The subject matter of this well-planned text is designed to ensure that the students gain a thorough understanding of the concepts and principles of measurement of physical quantities and the related transducers and instruments. This edition retains all the features of its previous editions viz. plenty of worked-out examples, review questions culled from examination papers of various universities for practice and the solutions to numerical problems and other additional information in appendices. NEW TO THIS EDITION Besides the inclusion of a new chapter on Hazardous Areas and Instrumentation(Chapter 15), various new sections have been added and existing sections modified in the following chapters: Chapter 3 Linearisation and Spline interpolation Chapter 5 Classifications of transducers, Hall effect, Piezoresistivity, Surface acoustic waves, Optical effects (This chapter has been thoroughly modified) Chapter 6 Proximity sensors Chapter 8 Hall effect and Saw transducers Chapter 9 Proving ring, Prony brake, Industrial weighing systems, Tachometers Chapter 10 ITS-90, SAW thermometer Chapter 12 Glass gauge, Level switches, Zero suppression and Zero elevation, Level switches Chapter 13 The section on ISFET has been modified substantially The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of sensors, computers and control systems. This 4e of the Instrumentation Reference Book embraces the equipment and systems used to detect, track and store data related to physical, chemical, electrical, thermal and mechanical properties of materials, systems and operations. While traditionally a key area within mechanical and industrial engineering, understanding this greater and more complex use of sensing and monitoring controls and systems is essential for a wide variety of engineering areas--from manufacturing to chemical processing to aerospace operations to even the everyday automobile. In turn, this has meant that the automation of manufacturing, process industries, and even building and infrastructure construction has been improved dramatically. And now with remote wireless instrumentation, heretofore inaccessible or widely dispersed operations and procedures can be automatically monitored and controlled. This already well-established reference work will reflect these dramatic changes with improved and expanded coverage of the traditional domains of instrumentation as well as the cutting-edge areas of digital integration of complex sensor/control systems. Thoroughly revised, with up-to-date coverage of wireless sensors and systems, as well as nanotechnologies role in the evolution of sensor technology Latest information on new sensor equipment, new measurement standards, and new software for embedded control systems, networking and automated control Three entirely new sections on Controllers, Actuators and Final Control Elements; Manufacturing Execution Systems; and Automation Knowledge Base Updated and expanded references and critical standards Since its first edition-more than 28 years ago-this book has helped thousands profitably use traditional Time and Motion Study and the predetermined time system, MTM-1. Presenting the fundamental tools of experimentation that are currently used by engineers and scientists, Measurement and Data Analysis for Engineering and Science, Second Edition covers the basics of experimentation, hardware of experiments, and methods of data analysis. It also offers historical perspectives throughout. Updating and reorganizing its popular predecessor, this second edition makes the text much easier to follow and enhances the presentation with electronic material. New to the Second Edition Order of chapters now reflects the sequence of topics usually included in an undergraduate course Asterisked sections denote material not typically covered formally during lecture in an introductory undergraduate course More than 150 new problems, bringing the total to over 420 problems Supplementary website that provides unit conversions, learning objectives, review crossword puzzles and solutions, differential equation derivations, laboratory exercise descriptions, MATLAB® sidebars with M-files, and homework data files Thorough and up to date, this edition continues to help students gain a fundamental understanding of the tools of experimentation. It discusses basic concepts related to experiments, measurement system components and responses, data analysis, and effective communication of experimental findings. Ancillary materials for instructors are available on a CD-ROM and a solutions manual is available for qualifying instructors. More data available on [www.nd.edu/~pdunn/www.text/measurements.html](http://www.nd.edu/~pdunn/www.text/measurements.html) This new edition of the methods and instrumentation used in the detection of ionizing radiation has been revised and updated to reflect recent advances. It covers modern engineering practice, provides useful design information and contains an up-to-date review of the literature. As the basic principles of EDM

instruments have changed little since the third edition of 1990, there was no need for significant changes. This edition differs from its predecessor in that it contains corrections of a number of errors and misprints, totally revised tables in Appendices D, E and F and a new note in Section 2. 4. 3 on the introduction of the new temperature scale in 1990. The author is indebted to the many readers who reported the many small errors and misprints. T. Black, H. Buchanan, R. Da-Col, R. Kochle, P. H. Lam, I. Nolton, I. R. Pollard and A. Quade were particularly helpful. All known errors have been corrected. The assistance provided by most manufacturers (or their agents) with the updating of the tables with the instrument data was greatly appreciated. Sydney, February 1996 I. M. RUEGER v Preface

The book has evolved from the author's continuing teaching of the subject and from two editions of a text of the same title. The first edition was published in 1978 by the School of Surveying, University of New South Wales, Sydney, Australia. Like its predecessors, this totally revised third edition is designed to make the subject matter more readily available to students proceeding to degrees in Surveying and related fields. The 4th Edition of this manual teaches how to perform the skills essential to identifying impairments and assessing rehabilitation status. For each measurable joint in the body, there is consistent, easy-to-follow format and photographs that depict stabilization during range of motion and alignment, making it easy to visualize the examination and technique for each joint motion and muscle length test. The book illustrates the landmarks for goniometer alignment, range-of-motion procedures with and without the goniometer, as well as muscle testing procedures. It features an expanded chapter on postural assessment, new coverage of bubble inclinometers and therabites. New range-of-motion and normative value boxes are found in each chapter; descriptions of normal end-feel patterns with laboratory exercises and examples contained throughout. The third edition of *Measurement and Data Analysis for Engineering and Science* provides an up-to-date approach to presenting the methods of experimentation in science and engineering. Widely adopted by colleges and universities within the U.S. and abroad, this edition has been developed as a modular work to make it more adaptable to different approaches from various schools. This text details current methods and highlights the six fundamental tools required for implementation: planning an experiment, identifying measurement system components, assessing measurement system component performance, setting signal sampling conditions, analyzing experimental results, and reporting experimental results. What's New in the Third Edition: This latest edition includes a new chapter order that presents a logical sequence of topics in experimentation, from the planning of an experiment to the reporting of the experimental results. It adds a new chapter on sensors and transducers that describes approximately 50 different sensors commonly used in engineering, presents uncertainty analysis in two separate chapters, and provides a problem topic summary in each chapter. New topics include smart measurement systems, focusing on the Arduino® microcontroller and its use in the wireless transmission of data, and MATLAB® and Simulink® programming for microcontrollers. Further topic additions are on the rejection of data outliers, light radiation, calibrations of sensors, comparison of first-order sensor responses, the voltage divider, determining an appropriate sample period, and planning a successful experiment. *Measurement and Data Analysis for Engineering and Science* also contains more than 100 solved example problems, over 400 homework problems, and provides over 75 MATLAB® Sidebars with accompanying MATLAB M-files, Arduino codes, and data files available for download. Revised to reflect significant advances in pharmaceutical production and regulatory expectations, *Handbook of Validation in Pharmaceutical Processes, Fourth Edition* examines and blueprints every step of the validation process needed to remain compliant and competitive. This book blends the use of theoretical knowledge with recent technological advancements to achieve applied practical solutions. As the industry's leading source for validation of sterile pharmaceutical processes for more than 10 years, this greatly expanded work is a comprehensive analysis of all the fundamental elements of pharmaceutical and bio-pharmaceutical production processes. *Handbook of Validation in Pharmaceutical Processes, Fourth Edition* is essential for all global health care manufacturers and pharmaceutical industry professionals. Key Features: Provides an in-depth discussion of recent advances in sterilization Identifies obstacles that may be encountered at any stage of the validation program, and suggests the newest and most advanced solutions Explores distinctive and specific process steps, and identifies critical process control points to reach acceptable results New chapters include disposable systems, combination products, nano-technology, rapid microbial methods, contamination control in non-sterile products, liquid chemical sterilization, and medical device manufacture This brand new edition paves the way for students and professionals to identify and solve human performance problems in all areas of sport science, physical education, health, and fitness. The text introduces students to tests and measurements and guides them through the minefield of statistics, data and decision-making and most importantly being able to understand and make sense of data. *Instrument Engineers' Handbook* □ Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial

plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power. This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique. It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique. This edition thoroughly expands and updates the chapters to include concepts, applications, and key references from recent literature. It also contains a new chapter on process analytical technology. Instrument Engineers' Handbook □ Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. 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Annotation copyright by Book News, Inc., Portland, OR This set of five volumes covers all aspects of instrument technology. Each volume has a part title. Jones' Instrument Technology, Volume 1: Mechanical Measurements, Fourth Edition, provides a comprehensive discussion of the design, operation, and application of various instruments for different types of measurements. The material has been grouped by application, but supplemented by one or two "techniques" chapters. The text is primarily a "stand alone" description of current practice. For the greatest part, readers will learn most from it simply by reading what it says itself. Because this book does not go into the greatest detail, most chapters feature a listing of more specialized books where particular subjects are dealt with more fully. The book covers instrumentation for measurements of flow, viscosity, length, strain, level and volume, vibration, force, density, pressure, vacuum, and particle size. It is aimed at a technician readership, as were earlier editions. Specialist instrument designers can find in this book a sound foundation on which they can build. Would-be graduate engineers who do not specialize in instrumentation will also find the broad coverage they need.

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