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*Electronic Imaging in Astronomy* Newnes Instrumentation and Measurement Pocket Book  
**Instrumentation Reference Book Measured Drawing for Architects** *Modern Vibrational Spectroscopy and Micro-Spectroscopy* **Digital and Analogue Instrumentation The Rust Programming Language (Covers Rust 2018)** *Creating Mobile Apps with Xamarin.Forms Preview Edition 2* The AIC Guide to Digital Photography and Conservation Documentation Treatise on Instrumentation *Introduction to Focused Ion Beams Pro Git* **Beam Instrumentation and Diagnostics** Control & Instrumentation Documentation and Argument in Early China *Meteorological Measurements and Instrumentation* *Understanding Pedagogic Documentation in Early Childhood Education* **Tax Institute Bookshelf Documentation, Disappearance and the Representation of Live Performance** *The Green Book Powertrain Instrumentation and Test Systems* **Spectroscopic Instrumentation Intelligent Sensing, Instrumentation and Measurements The Measurement, Instrumentation and Sensors Handbook** Aircraft Instrumentation and Systems BS EN IEC 60325. Radiation Protection Instrumentation. Alpha, Beta and Alpha/beta (beta Energy >60 KeV) Contamination Meters and Monitors *BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS, 2nd Ed.* **Site-specific Art Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis** Current Research and Development in Scientific Documentation Measurement, Instrumentation, and Sensors Handbook **Radiation Dosimetry Instrumentation and Methods Multimedia Research and Documentation of Oral Genres in Africa Coding and Documentation Compliance for the ICD and DSM** Handbook of Methods and Instrumentation in Separation Science **Instrumentation and Metrology in Oceanography** *Instrumentation, Control and Automation of Water and Wastewater Treatment and Transport Systems 1993 PostgreSQL 9.0 Official Documentation - Volume V. Internals and Appendixes* **PC Based Instrumentation and Control** *Advances in Dynamics, Instrumentation and Control*

The United States possesses a treasure-trove of extraterrestrial samples that were returned to Earth via space missions over the past four decades. Analyses of these previously returned samples have led to major breakthroughs in the understanding of the age, composition, and origin of the solar system. Having the instrumentation, facilities and qualified personnel to undertake analyses of returned samples, especially from missions that take up to a decade or longer from launch to return, is thus of paramount importance if the National Aeronautics and Space Administration (NASA) is to capitalize fully on the investment made in these missions, and to achieve the full scientific impact afforded by these extraordinary samples. Planetary science may be entering a new golden era of extraterrestrial sample return; now is the time to assess how prepared the scientific community is to take advantage of these opportunities. Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis assesses the current capabilities within the planetary science community for sample return analyses and curation, and what capabilities are currently missing that will be needed for future sample return missions. This report evaluates whether current laboratory support infrastructure and NASA's investment strategy is adequate to meet these analytical challenges and advises how the community can keep abreast of evolving and new techniques in order to stay at the forefront of extraterrestrial sample analysis. "Authored by the Digital Photographic Documentation Task Force of the American Institute for Conservation of Historic and Artistic Works"--P. 11. This product is a concise and useful reference for industrial engineers, scientists, designers, managers, research personnel and students. It covers an extensive range of topics that encompass the subject of measurement, instrumentation, and sensors. The Measurement Instrumentation and Sensors Handbook on CD-ROM provides easy access to the instrumentation and techniques for practical measurements required in engineering, physics, chemistry, and the life sciences. 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 Up-dated and expanded references and critical standards Modern Vibrational Spectroscopy and Micro-Spectroscopy: Theory, Instrumentation and Biomedical Applications unites the theory and background of conventional vibrational spectroscopy with the principles of microspectroscopy. It starts with basic theory as it applies to small molecules and then expands it to include the large biomolecules which are the main topic of the book with an emphasis on practical experiments, results analysis and medical and diagnostic applications. This book is unique in that it addresses both the parent spectroscopy and the microspectroscopic aspects in one volume. Part I covers the basic theory, principles and instrumentation of classical vibrational, infrared and Raman spectroscopy. It is aimed at researchers with a background in chemistry and physics, and is presented at the level suitable for first year graduate students. The latter half of Part I is devoted to more novel subjects in vibrational spectroscopy, such as resonance and non-linear Raman effects, vibrational optical activity, time resolved spectroscopy and computational methods. Thus, Part 1 represents a short course into modern vibrational spectroscopy. Part II is devoted in its entirety to applications of vibrational spectroscopic techniques to biophysical and bio-structural research, and the more recent extension of vibrational spectroscopy to microscopic data acquisition. Vibrational microscopy (or microspectroscopy) has opened entirely new avenues toward applications in the biomedical sciences, and has created new research fields collectively referred to as Spectral Cytopathology (SCP) and Spectral Histopathology (SHP). In order to fully exploit the information contained in the micro-spectral datasets, methods of multivariate analysis need to be employed. These methods, along with representative results of both SCP and SHP are presented and discussed in detail in Part II. This book describes the fundamental scientific principles underlying high quality instrumentation used for environmental measurements. It discusses a wide range of in situ sensors employed in practical environmental monitoring and, in particular, those used in surface based measurement systems. It also considers the use of weather balloons to provide a wealth of upper atmosphere data. To illustrate the technologies in use it includes many examples of real atmospheric measurements in typical and unusual circumstances, with a discussion of the electronic signal conditioning, data acquisition considerations and data processing principles necessary for reliable measurements. This also allows the long history of atmospheric measurements to be placed in the context of the requirements of modern climate science, by building the physical science appreciation of the instrumental record and looking forward to new and emerging sensor and recording technologies. The book deals with the increasingly complex test systems for powertrain components and systems giving an overview of the diverse types of test beds for all components of an advanced powertrain focusing on specific topics such as instrumentation, control, simulation,

hardware-in-the-loop, automation or test facility management. This book is intended for powertrain (component) development engineers, test bed planners, test bed operators and beginners. Through research, physical oceanography aims to solve the numerous problems stated by thermal, optical and dynamical properties of the oceans. Instrumentation and Metrology in Physical Oceanography describes the means used in oceanography to determine physical properties of the oceans by medium of in situ measurements. This book explores the theoretical functioning of sensors and instruments, as well as different practical aspects of using these tools. The content of this book appeals directly to technicians or engineers wishing to enhance their knowledge of instrumentation and application to environment surveillance. Instrumentation and Metrology in Physical Oceanography details the functioning of sensors and instruments used to assess the following parameters in oceanography: temperature, conductivity, pressure, sound velocity, current in magnitude and direction, time and position with GPS, height of water and tide, waves, optical and chemical properties (turbidity), dissolved gas (O<sub>2</sub>, CO<sub>2</sub>), pH, nutrients and other dissolved elements. Furthermore, this book also elaborates on the different means used to obtain measurements at sea (boats, drifting floats, moorings, undersea platforms, gliders...) and techniques currently being developed. A focussed day-to-day reference tool for engineers and students \* Key methods, formulae and data at your fingertips \* Expanded coverage of microprocessors, microcontrollers and digital interfacing Newnes Instrumentation and Measurement Pocket Book is a uniquely versatile and practical tool for a wide range of engineers and students. All the essentials of engineering instrumentation and measurement are covered, with clear explanations of key methods, and worked examples to illustrate them. Numerous tables and diagrams are provided, along with all the formulae you could need. The emphasis throughout the book is on providing the practical tools needed by engineers in real-world contexts. This pocket book is a handy source of information on systems and instruments for the measurement of quantities commonly encountered in engineering such as, temperature, radiation, stress and strain, and chemical composition. The third edition includes expanded coverage of microprocessors, microcontrollers and digital interfacing. The contents of this book have been carefully matched to the latest Further and Higher Education syllabuses so that it can also be used as a revision guide or a quick-access source of underpinning knowledge. Students on competence-based courses such as NVQs will find this approach particularly refreshing and practical. In order to analyze the light of cosmic objects, particularly at extremely great distances, spectroscopy is the workhorse of astronomy. In the era of very large telescopes, long-term investigations are mainly performed with small professional instruments. Today they can be done using self-designed spectrographs and highly efficient CCD cameras, without the need for large financial investments. This book explains the basic principles of spectroscopy, including the fundamental optical constraints and all mathematical aspects needed to understand the working principles in detail. It covers the complete theoretical and practical design of standard and Echelle spectrographs. Readers are guided through all necessary calculations, enabling them to engage in spectrograph design. The book also examines data acquisition with CCD cameras and fiber optics, as well as the constraints of specific data reduction and possible sources of error. In closing it briefly highlights some main aspects of the research on massive stars and spectropolarimetry as an extension of spectroscopy. The book offers a comprehensive introduction to spectroscopy for students of physics and astronomy, as well as a valuable resource for amateur astronomers interested in learning the principles of spectroscopy and spectrograph design. This second Preview Edition ebook, now with 16 chapters, is about writing applications for Xamarin.Forms, the new mobile development platform for iOS, Android, and Windows phones unveiled by Xamarin in May 2014. Xamarin.Forms lets you write shared user-interface code in C# and XAML that maps to native controls on these three platforms. The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all

98 existing chapters Covers sensors and sensor technology, time and frequency, signal processing, displays and recorders, and optical, medical, biomedical, health, environmental, electrical, electromagnetic, and chemical variables A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement provides readers with a greater understanding of advanced applications. The second edition of Electronic Imaging in Astronomy: Detectors and Instrumentation describes the remarkable developments that have taken place in astronomical detectors and instrumentation in recent years - from the invention of the charge-coupled device (CCD) in 1970 to the current era of very large telescopes, such as the Keck 10-meter telescopes in Hawaii with their laser guide-star adaptive optics which rival the image quality of the Hubble Space Telescope. Authored by one of the world's foremost experts on the design and development of electronic imaging systems for astronomy, this book has been written on several levels to appeal to a broad readership. Mathematical expositions are designed to encourage a wider audience, especially among the growing community of amateur astronomers with small telescopes with CCD cameras. The book can be used at the college level for an introductory course on modern astronomical detectors and instruments, and as a supplement for a practical or laboratory class. Instrumentation, Control and Automation of Water and Wastewater Treatment and Transport Systems 1993 comprises a selection of manuscripts on the development of control strategies and their applications and on the status and future directions of Instrumentation, Control, and Automation (ICA) in the water and wastewater industry. The book starts by providing an overview of the status, the constraints and the future prospects for ICA in water and wastewater treatment and transport based on the survey responses of experts from 16 different countries. The text continues by presenting the need for dynamic modeling and simulation software to assist operations staff in developing effective instrumentation control strategies and to provide a training environment for the evaluation of such strategies. The book also covers the critical variables in system success; the use of an enterprise-wide computing that emphasizes the importance of strategic planning, performance measures, and human factors associated with the suggested implementation of applied technology; and the use of part-time unmanned operation at a large wastewater treatment plant. A functional approach based on the utility's water and wastewater functional requirements; the collection system monitoring and control; water distribution and control systems; dynamic modeling and simulation; and process control strategy and development are also considered. This book will be beneficial to biochemists, wastewater technologists, and public health authorities. This study uncovers the traditions behind the formative Classic Shàngshū (Venerated Documents). It is the first to establish these traditions—"Shū" (Documents)—as a historically evolving practice of thought-production. By focusing on the literary form of the argument, it interprets the "Shū" as fluid text material that embodies the ever-changing cultural capital of projected conceptual communities. By showing how these communities actualised the "Shū" according to their changing visions of history and evolving group interests, the study establishes that by the Warring States period (ca. 453-221 BC) the "Shū" had become a literary genre employed by diverse groups to legitimize their own arguments. Through forms of textual performance, the "Shū" gave even peripheral communities the means to participate in political discourse by conferring their ideas with ancient authority. Analysing this dynamic environment of socio-political and philosophical change, this study speaks to the Early China field, as well as to those interested in meaning production and foundational text formation more widely. In this title, a substantial update of his earlier book, Modern Electronic Test and Measuring Instruments, the author provides a state-of-the-art review of modern families of digital instruments. For each family he covers internal design, use and applications, highlighting their advantages and limitations from a practical application viewpoint. The book also treats new digital instrument families such as DSOs, Arbitrary Function Generators, FFT analysers and many other common systems used by the test engineers, designers and research scientists. This book summarizes the experience of many years of teamwork with my group, the beam diagnostics group of GSI. For a long time the group was also responsible for operating the machines and application programming. In my opinion, this connection was very efficient: first, because a beam diagnostic system has to place powerful tools at the

operators' disposal; second, because data evaluation and presentation of results for machine operation demand application programs which can be handled not only by skilled experts. On the other hand, accelerator developments and improvements as well as commissioning of new machines by specialists require more complex measurements than those for routine machine operation. A modern beam diagnostic system, including the software tools, has to cover these demands, too. Therefore, this book should motivate physicists, constructors, electronic engineers, and computer experts to work together during the design and daily use of a beam diagnostic system. This book aims to give them ideas and tools for their work. I would not have been able to write this book without a good education in physics and many discussions with competent leaders, mentors, and colleagues. After working about 40 years in teams on accelerators, there are so many people I have to thank that it is impossible to mention them all by name here. Designed as a text for the undergraduate students of instrumentation, electrical, electronics and biomedical engineering, the second edition of the book covers the entire range of instruments and their measurement methods used in the medical field. The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology. The purpose of this book is to review the principles of biomedical instrumentation and measurements employed in the hospital industry. Primary emphasis is laid on the method rather than micro level mechanism. This book serves two purposes: One is to explain the mechanism and functional details of human body, and the other is to explain how the biological signals of human body can be acquired and used in a successful manner.

New to the second edition

- The chapters of the book have been reorganized so that the students can understand the concepts in a systematic manner.
- The chapter on Bioelectric Potentials and Transducers has been divided into three new chapters on Transducers for Biomedical Applications, Bioelectric Potential and Electrodes and some new sections are also included in these chapters.
- A few sections have also been added to the chapter titled Electrical Safety of Medical Equipment and Patients. Much more than simply recording events, pedagogical documentation is a revolutionary educational approach that enables practitioners to capture and understand the ways in which children learn and think. Exploring the use of pedagogic documentation across five different cultures, this book offers a unique insight into the conditions and methods through which pedagogical documentation might become an effective means of connecting teaching and learning. By drawing on theory, research-based evidence and practice, *Understanding Pedagogic Documentation in Early Childhood Education* reveals pedagogic documentation as an instigator for critical reflection on practice, for the creation of new pedagogical approaches and improvements in quality. Observing and documenting the lived educational experience of children and practitioners is emphasised as a means of acknowledging their voice and rights, of revealing their knowledge, their competences, their attitudes and dispositions to learning. Offering contextualised approaches and considering the challenges involved in observing and documenting day-to-day practice in early childhood settings, chapters encourage professionals to reflect and recognise the value of documentation for children, staff members and the wider community. Making a crucial contribution to the debates on pedagogical documentation, *Understanding Pedagogic Documentation in Early Childhood Education* offers researchers, students, policy-makers and professionals a comprehensive, and multicultural perspective on pedagogical documentation. This volume is a compilation of 50 articles representing the scientific and technical advances in various aspects of system dynamics, instrumentation, measurement techniques, and control. It serves as an important resource in the field. The topics include state-of-the-art contributions in the fields of dynamics and control of nonlinear, hybrid, stochastic, time-delayed and piecewise affine systems; nonlinear control theory; control of chaotic systems; adaptive, model predictive and real-time controls, with applications involving vehicular systems, fault diagnostics, and flexible and cellular manufacturing systems, vibration suppression, biomedical, mobile robots, etc.

The proceedings have been selected for coverage in:

  - ? Index to Scientific & Technical Proceedings? (ISTP? / ISI Proceedings)?
  - Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings)?
  - CC Proceedings ? Engineering & Physical Sciences

"Intelligent Sensing, Instrumentation and Measurements" addresses issues towards the development of sensor nodes for wireless Sensor Networks. The fundamentals of sensors, interfacing, power supplies, configuration of sensor node, and GUI development are covered. The book will be useful for engineers and researchers in the field, especially for higher undergraduate and postgraduate students as well as

practitioners working on the development of Wireless Sensor Networks or Smart Sensors. The documentation of practice is one of the principle concerns of performance studies. Focusing on contemporary performance practice and with emphasis on the transformative impact of video, photography and writing, this book explores the ideological, practical, and representational implications of knowing performance through its documentations. *Introduction to Focused Ion Beams* is geared towards techniques and applications. This is the only text that discusses and presents the theory directly related to applications and the only one that discusses the vast applications and techniques used in FIBs and dual platform instruments. This text traces the historical antecedents of installation and performance art, while also assembling a documentation of contemporary practice around the world. It provides individual analyses of the themes of space, materials, site and frames. *Aircraft Instrumentation and Systems* has the adequate coverage to deal generally the topics for undergraduate course on Aircraft Instrumentation. It covers: An introduction to aircraft instruments and systems, Air data systems and air data computers, Navigation systems, Gyroscopic flight instruments, Engine instruments, Electronics flight instrument systems, Safety and warning systems. Every effort has been done to update the contents of the book to the present-day technology used in modern transport category aircraft manufactured by Boeing and Airbus industry. The text is profusely illustrated with block diagrams, schematic diagrams and a number of tables and glossary. Review questions have been included at the end of the each chapter for practice and self-study. The book is intended for teaching and study the topic for students of B.E., M.E. and students in Instrumentation Technology and Aircraft Engineering. It also introduces the subject to practising engineers and readers interested in aircraft instrumentation and to the flight crew. This influential work appraises the musical qualities and potential of over 60 stringed, wind, and percussion instruments. Includes 150 full-score musical examples from works by Berlioz, Mozart, Beethoven, Wagner, others. Foreword by Richard Strauss. This book is part of the PostgreSQL 9.0 documentation collection (up-to-date & full), published by Fultus Corporation. PostgreSQL 9.0 includes built-in, binary replication, and over a dozen other major features which will appeal to everyone from web developers to database hackers. Radiation dosimetry has made great progress in the last decade, mainly because radiation therapy is much more widely used. Since the first edition, many new developments have been made in the basic methods for dosimetry, i.e. ionization chambers, TLD, chemical dosimeters, and photographic films. *Radiation Dosimetry: Instrumentation and Methods, Second Edition* brings to the reader these latest developments. Written at a high level for medical physicists, engineers, and advanced dosimetrists, it concentrates only on evolution during the last decade, relying on the first edition to provide the basics. *Coding and Documentation Compliance for the ICD and DSM* provides professionals, professors, and students with a logical and practical way of understanding a difficult topic in healthcare for the clinician: coding. Established professionals will find the tools they need to comply with the ICD series, HIPAA, and integrated care models. Professors and students will appreciate having a systemized, standardized approach to teaching and learning the more complex aspects of ICD compliance. The interplay between the ICD and DSM manuals is also explicated in clear terms. *PC Based Instrumentation and Control* is a guide to implementing computer control, instrumentation and data acquisition using a standard PC and some of the more traditional computer languages. Numerous examples of configurations and working circuits, as well as representative software, make this a practical, hands-on guide to implementing PC-based testing and calibration systems and increasing efficiency without compromising quality or reliability. Guidance is given on modifying the circuits and software routines to meet the reader's specific needs. The third edition includes updated coverage of PC hardware and bus systems, a new chapter on virtual instruments and an introduction to programming and software development in a modern 32-bit environment. Additional examples have been included, with source code and executables available for download from the companion website [www.key2control.com](http://www.key2control.com). *Handbook of Methods and Instrumentation in Separation Science, Volume 1* provides concise overviews and summaries of the main methods used for separation. It is based on the *Encyclopedia of Separation Science*. The handbook focuses on the principles of methods and instrumentation. It provides general concepts concerning the subject matter; it does not present specific procedures. This volume discusses the separation processes including affinity methods, analytical ultracentrifugation, centrifugation, chromatography, and use of decanter centrifuge and dye. Each methodology is defined and compared with

other separation processes. It also provides specific techniques, principles, and theories concerning each process. Furthermore, the handbook presents the applications, benefits, and validation of the processes described in this book. This handbook is an excellent reference for biomedical researchers, environmental and production chemists, flavor and fragrance technologists, food and beverage technologists, academic and industrial librarians, and nuclear researchers. Students and novices will also find this handbook useful for practice and learning. One-stop source for information on separation methods

General overviews for quick orientation  
Ease of use for finding results fast  
Expert coverage of major separation methods  
Coverage of techniques for all sizes of samples, pico-level to kilo-level

Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need. Written by Git pros Scott Chacon and Ben Straub, Pro Git (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on GitHub. It's the best book for all your Git needs. This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users. This book approaches a central concern of oral literature studies worldwide, with a special focus on Africa: how to deal with oral genres in a world where new technologies have become available to more and more people? As the book asserts, what is new is that the spotlight is directed towards (old and new) "interlocutors" who cooperate in the making of technologized oral genres in an increasingly technologized world. Their interactions affect the performance, as well as research - their roles and positions raise methodological and ethical questions particularly when local/national identities and commercial interests are at stake. (Series: African Studies / Afrikanische Studien - Vol. 45) The official book on the Rust programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as: Ownership and borrowing, lifetimes, and traits Using Rust's memory safety guarantees to build fast, safe programs Testing, error handling, and effective refactoring Generics, smart pointers, multithreading, trait objects, and advanced pattern matching Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies How best to use Rust's advanced compiler with compiler-led programming techniques You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

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