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[Introduction to Frustrated Magnetism](#) May 16 2021 The field of highly frustrated magnetism has developed considerably and expanded over the last 15 years. Issuing from canonical geometric frustration of interactions, it now extends over other aspects with many degrees of freedom such as magneto-elastic couplings, orbital degrees of freedom, dilution effects, and electron doping. It is thus shown here that the concept of frustration impacts on many other fields in physics than magnetism. This book represents a state-of-the-art review aimed at a broad audience with tutorial chapters and more topical ones, encompassing solid-state chemistry, experimental and theoretical physics.

[The Microscope](#) Dec 31 2019 Vol. 3 adds section "The Entomological monthly."

[CRC Handbook of Chemistry and Physics, 94th Edition](#) Jun 28 2022 Celebrating the 100th anniversary of the CRC Handbook of Chemistry and Physics, this 94th edition is an update of a classic reference, mirroring the growth and direction of science for a century. The Handbook continues to be the most accessed and respected scientific reference in the science, technical, and medical communities. An authoritative resource consisting of tables of data, its usefulness spans every discipline. Originally a 116-page pocket-sized book, known as the Rubber Handbook, the CRC Handbook of Chemistry and Physics comprises 2,600 pages of critically evaluated data. An essential resource for scientists around the world, the Handbook is now available in print, eBook, and online formats. New tables: Section 7: Biochemistry Properties of Fatty Acid Methyl and Ethyl Esters Related to Biofuels Section 8: Analytical Chemistry Gas Chromatographic Retention Indices Detectors for Liquid Chromatography Organic Analytical Reagents for the Determination of Inorganic Ions Section 12: Properties of Solids Properties of Selected Materials at Cryogenic Temperatures Significantly updated and expanded tables: Section 3: Physical Constants of Organic Compounds Expansion of Diamagnetic Susceptibility of Selected Organic Compounds Section 5: Thermochemistry, Electrochemistry, and Solution Chemistry Update of Electrochemical Series Section 6: Fluid Properties Expansion of Thermophysical Properties of Selected Fluids at Saturation Major expansion and update of Viscosity of Liquid Metals Section 7: Biochemistry Update of Properties of Fatty Acids and Their Methyl Esters Section 8: Analytical Chemistry Major expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9: Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 11: Nuclear and Particle Physics Update of Summary Tables of Particle Properties Section 14: Geophysics, Astronomy, and Acoustics Update of Atmospheric Concentration of Carbon Dioxide, 1958-2012 Update of Global Temperature Trend, 1880-2012 Major update of Speed of Sound in Various Media Section 15: Practical Laboratory Data Update of Laboratory Solvents and Other Liquid Reagents Major update of Density of Solvents as a Function of Temperature Major update of Dependence of Boiling Point on Pressure Section 16: Health and Safety Information Major update of Threshold Limits for Airborne Contaminants Appendix A: Major update of Mathematical Tables Appendix B: Update of Sources of Physical and Chemical Data

[The Cambridge History of Medieval Monasticism in the Latin West](#) Jun 04 2020 Monasticism, in all of its variations, was a feature of almost every landscape in the medieval West. So ubiquitous were religious women and men throughout the Middle Ages that all medievalists encounter monasticism in their intellectual worlds. While there is enormous interest in medieval monasticism among Anglophone scholars, language is often a barrier to accessing some of the most important and groundbreaking research emerging from Europe. The Cambridge History of Medieval Monasticism in the Latin West offers a comprehensive treatment of medieval monasticism, from Late Antiquity to the end of the Middle Ages. The essays, specially commissioned for this volume and written by an international team of scholars, with contributors from Australia, Belgium, Canada, England, France, Germany, Italy, the Netherlands, Spain, Switzerland, and the United States, cover a range of topics and themes and represent the most up-to-date discoveries on this topic.

[Introductory General Chemistry Laboratory Experiments](#) Jan 24 2022

[Folia biologica](#) Jan 30 2020

[Common Space](#) Feb 10 2021 Space is both a product and a prerequisite of social relations, it has the potential to block and encourage certain forms of encounter. In Common Space, activist and architect Stavros Stavrides calls for us to conceive of space-as-commons - first, to think beyond the notions of public and private space, and then to understand common space not only as space that is governed by all and remains open to all, but that explicitly expresses, encourages and exemplifies new forms of social relations and of life in common. Through a fascinating, global examination of social housing, self-built urban settlements, street trade and art, occupied space, liberated space and graffiti, Stavrides carefully shows how spaces for commoning are created. Moreover, he explores the connections between processes of spatial transformation and the formation of politicised subjects to reveal the hidden emancipatory potential of contemporary, metropolitan life.

[Introductory Chemistry](#) Mar 26 2022 This lab manual helps students develop data acquisition, organization, and analysis skills while teaching basic techniques. Students construct their own data tables, answer conceptual questions, and make predictions before performing experiments. They also have the opportunity to visualize and describe molecular level activity and explain the results.

[CRC Handbook of Basic Tables for Chemical Analysis](#) Nov 09 2020 Researchers in chemistry, chemical engineering, pharmaceutical science, forensics, and environmental science make routine use of chemical analysis, but the information

these researchers need is often scattered in different sources and difficult to access. The CRC Handbook of Basic Tables for Chemical Analysis: Data-Driven Methods and Interpretation, Fourth Edition is a one-stop reference that presents updated data in a handy format specifically designed for use when reaching a decision point in designing an analysis or interpreting results. This new edition offers expanded coverage of calibration and uncertainty, and continues to include the critical information scientists rely on to perform accurate analysis. Enhancements to the Fourth Edition: Compiles a huge array of useful and important data into a single, convenient source Explanatory text provides context for data and guidelines on applications Coalesces information from several different fields Provides information on the most useful "wet" chemistry methods as well as instrumental techniques, with an expanded discussion of laboratory safety Contains information of historical importance necessary to interpret the literature and understand current methodology. Unmatched in its coverage of the range of information scientists need in the lab, this resource will be referred to again and again by practitioners who need quick, easy access to the data that forms the basis for experimentation and analysis.

Essentials of Introductory Chemistry Aug 19 2021 "Introductory Chemistry," Third Edition helps readers master the quantitative skills and conceptual understanding they need to gain a deep understanding of chemistry. Unlike other books on the market that emphasize rote memory of problem-solving algorithms, "Introductory Chemistry" takes a conceptual approach with the idea that focusing on the concepts behind chemical equations helps readers become more proficient problem solvers. What Is Chemistry?, The Numerical Side of Chemistry, The Evolution of Atomic Theory, The Modern Model of the Atom 1, Chemical Bonding and Nomenclature, The Shape of Molecules, Chemical Reactions, Stoichiometry and the Mole, The Transfer of Electrons from One Atom to Another in a Chemical Reaction Intermolecular Forces and the Phases of Matter, What If There Were No Intermolecular Forces?, The Ideal Gas Solutions, When Reactants Turn into Products, Chemical Equilibrium, Electrolytes, Acids, and Bases. For all readers interested in introductory chemistry.

Lab Manual for Connecting Chemistry to the Tribal Community Sep 19 2021 This manual contains chemistry laboratory experiments that are adaptable for use by tribal colleges and community colleges. It was created for a two-semester General, Organic, and Biochemistry course sequence at Nebraska's two tribal colleges over a period of four years. While the authors see chemistry everywhere, we developed these connections to tribal community topics to help students to see the chemistry of everyday life and to find intellectual satisfaction and enjoyment while doing so. The labs can be performed by students alone or in pairs and will require about 2.5 hours to complete if the reagents and materials are ready. All labs have background information, community connections, the lab protocols and procedures, and suggestions for the lab report.

Publicatio UEPG. Sep 07 2020

Innovative Methods of Teaching and Learning Chemistry in Higher Education Jul 26 2019 Two recent initiatives from the EU, namely the Bologna Process and the Lisbon Agenda are likely to have a major influence on European Higher Education. It seems unlikely that traditional teaching approaches, which supported the elitist system of the past, will promote the mobility, widened participation and culture of 'life-long learning' that will provide the foundations for a future knowledge-based economy. There is therefore a clear need to seek new approaches to support the changes which will inevitably occur. The European Chemistry Thematic Network (ECTN) is a network of some 160 university chemistry departments from throughout the EU as well as a number of National Chemical Societies (including the RSC) which provides a discussion forum for all aspects of higher education in chemistry. This handbook is a result of one of their working groups, who identified and collated good practice with respect to innovative methods in Higher Level Chemistry Education. It provides a comprehensive overview of innovations in university chemistry teaching from a broad European perspective. The generation of this book through a European Network, with major national chemical societies and a large number of chemistry departments as members make the book unique. The wide variety of scholars who have contributed to the book, make it interesting and invaluable reading for both new and experienced chemistry lecturers throughout the EU and beyond. The book is aimed at chemistry education at universities and other higher level institutions and at all academic staff and anyone interested in the teaching of chemistry at the tertiary level. Although newly appointed teaching staff are a clear target for the book, the innovative aspects of the topics covered are likely to prove interesting to all committed chemistry lecturers.

Chemistry in the Laboratory Oct 09 2020 This clearly written, class-tested manual has long given students hands-on experience covering all the essential topics in general chemistry. Stand alone experiments provide all the background introduction necessary to work with any general chemistry text. This revised edition offers new experiments and expanded information on applications to real world situations.

Introductory Chemistry Jul 18 2021 Steve Russo and Mike Silver turn chemistry into a memorable story that engages readers and provides the context they need to understand and remember core concepts. The book builds interesting applications and well-designed illustrations into the narrative to get and hold attention, then builds confidence with integrated active learning activities. Readers make the connections between concepts and the problem-solving techniques they need to master as they read. The new edition strengthens this conceptual approach and presents additional quantitative techniques in key areas. Readers will find enhanced support for quantitative problem-solving and more challenging questions at the end of each chapter, in addition to the wealth of technology-based support on The Chemistry Place(tm), Special Edition and on The Chemistry of Life CD-ROM. For college instructors and students.

Undergraduate Research at Community Colleges Aug 07 2020 Co-published with the Council on Undergraduate Researching alt="" src="https://styluspub.presswarehouse.com/uploads/71c005d5633809b40b1da36968e360e2d8276564.jpg" This book highlights the exciting work of two-year colleges to prepare students for their future careers through engagement in undergraduate research. It emerged from work in five community college systems thanks to two National Science Foundation grants the Council for Undergraduate Research received to support community colleges' efforts to establish undergraduate research programs. Chapters one, two, and three provide background information about community colleges, undergraduate research, and the systems the author worked with: California, City University of New York, Maricopa Community College District - Arizona, Oklahoma, and Tennessee. Chapter four examines success strategies. The next five chapters look at five approaches to undergraduate research: basic/applied, course-based, community-based, interdisciplinary, and partnership research. Chapters ten, eleven and twelve discuss ways to assess and evaluate undergraduate research experiences, inclusive pedagogy, and ways to advance undergraduate research. Today there are 942 public community colleges in the United States, providing affordable access to 6.8 million students who enrolled for credit in one of the public two-year institutions in the United States. Students are more prepared for the next step in their education or careers after participating in quality UR experiences.

Proceedings of International Conference on Advances in Computing Jul 06 2020 This is the first International Conference on Advances in Computing (ICAdC-2012). The scope of the conference includes all the areas of New Theoretical Computer Science, Systems and Software, and Intelligent systems. Conference Proceedings is a culmination of research results, papers and the theory related to all the three major areas of computing mentioned above. Helps budding researchers, graduates in the areas of Computer Science, Information Science, Electronics, Telecommunication, Instrumentation, Networking to take forward their research work based on the reviewed results in the paper by mutual interaction through e-mail contacts in the proceedings.

Mathematical Modelling and Computer Simulation of Activated Sludge Systems Apr 02 2020 This international, comprehensive guide to modeling and simulation studies in activated sludge systems leads the reader through the entire modeling process - from building a mechanistic model to applying the model in practice. Mathematical Modelling and Computer Simulation of Activated Sludge Systems will: Enhance the readers' understanding of different model concepts for several (most essential) biochemical processes in the advanced activated sludge systems Provide extensive and up-to-date coverage of experimental methodologies of a complete model parameter estimation (longitudinal dispersion coefficient, influent wastewater fractions, kinetic and stoichiometric coefficients, settling velocity, etc.) Summarize and critically review the ranges of model parameters reported in literature Compare the existing protocols aiming at a systematic organization of the simulation study Outline the capabilities of the existing commercial simulators Present documented, successful case studies of practical model applications as a guide while planning a simulation study. The book is organized to provide a general background and some basic definitions, then theoretical aspects of modeling and finally, the issues important for practical model applications. Mathematical Modelling and Computer Simulation of Activated Sludge Systems can be used as supplementary material for a graduate level wastewater engineering courses and is useful to a wide audience of researchers and practitioners. Experienced model users such as consultants, trained plant management staff may find the book useful as a reference and as a resource for self-guided study. Visit the IWA WaterWiki to read and share material related to this title:

<http://www.iwaterwiki.org/xwiki/bin/view/Articles/MathematicalModellingandActivatedSludgeSystems>

CRC Handbook of Fundamental Spectroscopic Correlation Charts Jul 30 2022 From forensics and security to pharmaceuticals and environmental applications, spectroscopic detection is one of the most cost-effective methods for identifying chemical compounds in a wide range of disciplines. For spectroscopic information, correlation charts are far more easily used than tables, especially for scientists and students whose own areas of specialization may lie elsewhere. The CRC Handbook of Fundamental Spectroscopic Correlation Charts provides a collection of spectroscopic information and unique correlation charts for use in the interpretation of spectroscopic measurements. The handbook presents useful analysis and assignment of spectra and structural elucidation of organic and organometallic molecules. The correlation charts are compiled from an extensive search of spectroscopic literature and contain current, detailed information that includes new results for many compounds. The handbook includes graphical data charts for nuclear magnetic resonance spectroscopy of the most useful nuclei, as well as infrared and ultraviolet spectrophotometry. Because mass spectrometry data is not best represented graphically, the data are presented in tabular form, where mass spectrometry can be used for analyses and structural determinations in tandem with other techniques. In addition to presenting absorption bands and intensities for a variety of important functional groups and chemical families, the book also discusses instrument calibration, diagnostics, common solvents, fragmentation patterns, several practical conversion tables, and laboratory safety. Not intended to replace reference works that provide exhaustive spectral charts on specific compound classes, this book fills the need for fundamental charts that are needed on a general, day-to-day basis. The CRC Handbook of Fundamental Spectroscopic Correlation Charts is an ideal laboratory companion for students and professionals in academic, industrial, and government labs.

[The Sounding Object](#) Oct 28 2019

[Magill's Survey of Science](#) Oct 21 2021

Organic Chemistry Laboratory Manual Nov 02 2022 Written in a straightforward manner, this laboratory manual for a two-semester organic chemistry course provides only the essential background material, laboratory set-ups, and procedures for each exercise. The exercises have been carefully written to minimize set-up time and eliminate the need for elaborate and expensive laboratory equipment. Laboratory techniques are emphasized rather than theoretical understanding.

Model Free Adaptive Control Dec 11 2020 Model Free Adaptive Control: Theory and Applications summarizes theory and applications of model-free adaptive control (MFAC). MFAC is a novel adaptive control method for the unknown discrete-time nonlinear systems with time-varying parameters and time-varying structure, and the design and analysis of MFAC merely depend on the measured input and output data of the controlled plant, which makes it more applicable for many practical plants. This book covers new concepts, including pseudo partial derivative, pseudo gradient, pseudo Jacobian matrix, and generalized Lipschitz conditions, etc.; dynamic linearization approaches for nonlinear systems, such as compact-form dynamic linearization, partial-form dynamic linearization, and full-form dynamic linearization; a series of control system design methods, including MFAC prototype, model-free adaptive predictive control, model-free adaptive iterative learning control, and the corresponding stability analysis and typical applications in practice. In addition, some other important issues related to MFAC are also discussed. They are the MFAC for complex connected systems, the modularized controller designs between MFAC and other control methods, the robustness of MFAC, and the symmetric similarity for adaptive control system design. The book is written for researchers who are interested in control theory and control engineering, senior undergraduates and graduated students in engineering and applied sciences, as well as professional engineers in process control.

Handbook of Meat and Meat Processing, Second Edition Mar 02 2020 Retitled to reflect expansion of coverage from the first edition, Handbook of Meat and Meat Processing, Second Edition, contains a complete update of materials and nearly twice the number of chapters. Divided into seven parts, the book covers the entire range of issues related to meat and meat processing, from nutrients to techniques for preservation and extending shelf life. Topics discussed include: An overview of the meat-processing industry The basic science of meat, with chapters on muscle biology, meat consumption, and chemistry Meat attributes and characteristics, including color, flavor, quality assessment, analysis, texture, and control of microbial contamination The primary processing of meat, including slaughter, carcass evaluation, and kosher laws Principles and applications in the secondary processing of meat, including breeding, curing, fermenting, smoking, and marinating The manufacture of processed meat products such as sausage and ham The safety of meat products and meat workers, including sanitation issues and hazard analysis Drawn from the combined efforts of nearly 100 experts from 16 countries, the book has been carefully vetted to ensure technical accuracy for each topic. This definitive guide to meat and meat products it is a critical tool for all food industry professionals and regulatory personnel.

CRC Handbook of Chemistry and Physics, 96th Edition Nov 21 2021 Proudly serving the scientific community for over a century, this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions. A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition. This series is continued with this edition, which is focused on Lord Kelvin, Michael Faraday, John Dalton, and Robert Boyle. This series, which provides biographical information, a list of major achievements, and notable quotations attributed to each of the renowned chemists and physicists, will be continued in succeeding editions. Each edition will feature two chemists and two physicists. The 96th edition now

includes a complimentary eBook with purchase of the print version. This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach. New Tables: Section 1: Basic Constants, Units, and Conversion Factors Descriptive Terms for Solubility Section 8: Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine-Bromine Combination Isotope Intensities Section 16: Health and Safety Information Materials Compatible with and Resistant to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6: Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7: Biochemistry Structure and Functions of Some Common Drugs Section 9: Molecular Structure and Spectroscopy Bond Dissociation Energies Section 11: Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14: Geophysics, Astronomy, and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide, 1958-2014 Global Temperature Trend, 1880-2014 Section 15: Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16: Health and Safety Information Threshold Limits for Airborne Contaminants

Guide to Spectroscopic Identification of Organic Compounds Apr 26 2022 Guide to Spectroscopic Identification of Organic Compounds is a practical "how-to" book with a general problem-solving algorithm for determining the structure of a molecule from complementary spectra or spectral data obtained from MS, IR, NMR, or UV spectrophotometers. Representative compounds are analyzed and examples are solved. Solutions are eclectic, ranging from simple and straightforward to complex. A picture of the relationship of structure to physical properties, as well as to spectral features, is provided. Compounds and their derivatives, structural isomers, straight-chain molecules, and aromatics illustrate predominant features exhibited by different functional groups. Practice problems are also included. Guide to Spectroscopic Identification of Organic Compounds is a helpful and convenient tool for the analyst in interpreting organic spectra. It may serve as a companion to any organic textbook or as a spectroscopy reference; its size allows practitioners to carry it along when other tools might be cumbersome or expensive.

Practical Guide to ICP-MS Dec 23 2021 Written by a field insider with more than 20 years of experience in the development and application of atomic spectroscopy instrumentation, the Practical Guide to ICP-MS offers key concepts and guidelines in a reader-friendly format that is superb for those with limited knowledge of the technique. This reference discusses the fundamental principles, analytical advantages, practical capabilities, and overall benefits of ICP-MS. It presents the most important selection criteria when evaluating commercial ICP-MS equipment and the most common application areas of ICP-MS such as the environmental, semiconductor, geochemical, clinical, nuclear, food, metallurgical, and petrochemical industries.

Disease Control Priorities, Third Edition (Volume 2) Jun 24 2019 The evaluation of reproductive, maternal, newborn, and child health (RMNCH) by the Disease Control Priorities, Third Edition (DCP3) focuses on maternal conditions, childhood illness, and malnutrition. Specifically, the chapters address acute illness and undernutrition in children, principally under age 5. It also covers maternal mortality, morbidity, stillbirth, and influences to pregnancy and pre-pregnancy. Volume 3 focuses on developments since the publication of DCP2 and will also include the transition to older childhood, in particular, the overlap and commonality with the child development volume. The DCP3 evaluation of these conditions produced three key findings: 1. There is significant difficulty in measuring the burden of key conditions such as unintended pregnancy, unsafe abortion, nonsexually transmitted infections, infertility, and violence against women. 2. Investments in the continuum of care can have significant returns for improved and equitable access, health, poverty, and health systems. 3. There is a large difference in how RMNCH conditions affect different income groups; investments in RMNCH can lessen the disparity in terms of both health and financial risk.

Whitaker's Books in Print Apr 14 2021

The Cumulative Book Index Aug 26 2019 A world list of books in the English language.

CRC Handbook of Basic Tables for Chemical Analysis May 28 2022 Winner of an Outstanding Academic Title Award for 2011! Researchers in organic chemistry, chemical engineering, pharmaceutical science, forensics, and environmental science make routine use of chemical analysis, but the information these researchers need is often scattered in different sources and difficult to access. The CRC Handbook of Basic Tables

LSC CPSX () : LSC CPS8 (Queensborough) Prob workbook Org Chem Jan 12 2021 This workbook presents a variety of problems which are common to all undergraduate courses in Organic Chemistry, but with an emphasis on reaction mechanisms. This workbook also contains problems dealing with spectroscopy and organic synthesis. The problems vary in degree of difficulty and are suitable for all levels of learning, from junior college to pre-graduate school.

Forthcoming Books Sep 27 2019

Journal of Research of the National Institute of Standards and Technology Oct 01 2022

Applied Chemistry Nov 29 2019 This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

The Publishers' Trade List Annual May 04 2020

Monthly Catalog of United States Government Publications Mar 14 2021

Compositional Analysis of Polymers Jun 16 2021 Technical and technological development demands the creation of new materials that are stronger, more reliable, and more durable—materials with new properties. This new book covers a broad range of polymeric materials and technology and provides researchers in polymer science and technology with new research on the functional materials production chain. Chapters in this new volume highlight recent developments in advanced polymeric materials from macro- to nano-length scales. Composites are becoming more important because they can help to improve quality of life. This volume presents the latest developments and trends in advanced polymer materials and structures. It discusses the developments of advanced polymers and respective tools to characterize and predict the material properties and behavior. This book has an important role in advancing polymer materials in macro and nanoscale. Its aim is to provide original, theoretical, and important experimental results that use non-routine methodologies. It also includes chapters on novel applications of more familiar experimental techniques and analyses of composite problems that indicate the need for new experimental approaches.

Monthly Catalog of United States Government Publications Feb 22 2022 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

CRC Handbook of Chemistry and Physics Aug 31 2022 Mirroring the growth and direction of science for a century, the Handbook, now in its 93rd edition, continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting tables of data, its usefulness spans every discipline. This edition includes 17 new tables in the Analytical Chemistry section, a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables. The book puts physical formulas and mathematical tables used in labs every day within easy reach. The 93rd edition is the first edition to be available as an eBook.

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