

Enzymes Biochemistry Biotechnology Clinical Chemistry Trevor Palmer

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Enzymes - Trevor Palmer 2001

This textbook, by Professor Trevor Palmer (Professor of Life Sciences Nottingham Trent University), ~is written with the requirements of the student firmly in mind. No previous knowledge of biochemistry, and little of chemistry, is assumed. It is intended to provide an introduction to enzymology, and a balanced account of all the various theoretical and applied aspects of the subject which are likely to be included in a course - something rarely attempted in enzymology books at this level. Furthermore some of the later chapters may serve as a bridge to more advanced textbooks for students wishing to proceed further in this area of biochemistry.~

Experimental Biochemistry - Beedu Sashidhar Rao 2005-01-01

A Student Companion is a purpose-oriented, practical laboratory manual for students pursuing biochemistry as a subject module at various universities. This book presents a concise account of biochemical experiments based on a concept-oriented approach. An important intent in designing this book is to fortify the students' ability to perform an experiment in the laboratory. The coverage of the subject area includes complete experimental procedures and workouts in the qualitative & quantitative biochemical analysis, enzymology, biochemical separation techniques, biochemical preparations, clinical biochemistry,

immunoanalytical techniques and food biochemistry. Due emphasis has been given to laboratory safety & hygiene. This book will be of interest to a wide audience ranging from students & instructors to researchers in the field.

Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology - Andreas Hofmann 2018-04-19

Bringing this best-selling textbook right up to date, the new edition uniquely integrates the theories and methods that drive the fields of biology, biotechnology and medicine, comprehensively covering both the techniques students will encounter in lab classes and those that underpin current key advances and discoveries. The contents have been updated to include both traditional and cutting-edge techniques most commonly used in current life science research. Emphasis is placed on understanding the theory behind the techniques, as well as analysis of the resulting data. New chapters cover proteomics, genomics, metabolomics, bioinformatics, as well as data analysis and visualisation. Using accessible language to describe concepts and methods, and with a wealth of new in-text worked examples to challenge students' understanding, this textbook provides an essential guide to the key techniques used in current bioscience research. *Concepts in Biotechnology* - Charles F. A. Bryce 2004-10

The Book Covers The Fundamental Principles And Concepts In Biotechnology Which Form The Basis For The Subject And Illustrates Their Applications In Selected Areas Such As Health Care, Agriculture, Animal Systems, Bioprocess Technologies And Environmental Aspects. This Textbook Is The Outcome Of A Costed-Ibn Project On Curriculum Development In Biotechnology For Undergraduate Study. It Is Designed To Provide A Strong Base In This Emerging, Interdisciplinary Are Which Holds Great Promise For Economic Development.

The Great Time Machine Hoax - Keith Laumer
2016-03-24

Chester W. Chester IV inherits a run-down mansion and millions in back taxes. In order to pay the taxes, he initially decides to auction off the mansion and its contents, but then he discovers a massive computer (the Generalized Nonlinear Extrapolator, or "Genie") that can bring any situation or time to life.

Gene Biotechnology - S. N. Jogdand 2009
This book has been designed to discuss genetics basis of biotechnology and introduce the students to the recent developments in the fields of genetics.

Class 5: Isomerases - Dietmar Schomburg
2001-06-20

The Springer Handbook of Enzymes provides concise data on some 5,000 enzymes sufficiently well characterized - and here is the second, updated edition. Their application in analytical, synthetic and biotechnology processes as well as in food industry, and for medicinal treatments is added. Data sheets are arranged in their EC-Number sequence. The new edition reflects considerable progress in enzymology: the total material has more than doubled, and the complete 2nd edition consists of 39 volumes plus Synonym Index. Starting in 2009, all newly classified enzymes are treated in Supplement Volumes.

Essentials of Molecular Biology - V. Malathi
2012

Essentials of Enzymology - Rufus O. Okotore
2015-03-13

Essentials of Enzymology provides concise information on an important area of the subject, Biochemistry. This may serve as course material for an advanced treatise in Enzymology designed

for undergraduate science degree programs, especially B.Sc. (Hons) Biochemistry and Chemistry. The book is in 12 chapters which has been divided into four distinct sections, thus (1) Basic enzyme chemistry and physiology. (2) Enzyme Kinetics, (3) Enzyme catalysis, Mechanisms and Regulation,(4)Applications of Enzymology. The Part 1 consists of four chapters that deal with the nature of enzymes- (history, properties and classification), enzyme physiology; structure of enzymes, and analytical enzymology. Part 2 deals with Enzyme Kinetics which is treated in three chapters, and Part 3, made up of three chapters discuss Enzyme catalysis, mechanisms and regulation. Lastly, Part 4 consisting of two chapters deal with the applications of enzymology. Significantly, the kinetics of enzyme catalyzed reactions in diverse experimental conditions, and also under various inhibition types are presented in a simple, mathematical lucid approach. The mechanisms of action for two atypical proteins-chymotrypsin and lysozyme, so also the identification of active sites of enzymes by specific labels are discussed concisely. Lastly, the specific applications of enzymes in diagnostic medicine, industry, and also the new emerging area of enzyme biotechnology and enzyme bioinformatics are presented

Lehninger Principles of Biochemistry - Nelson David L. 2005

CD-ROM includes animations, living graphs, biochemistry in 3D structure tutorials.

Perilous Planet Earth - Trevor Palmer
2003-06-12

A readable account of the history of natural disasters throughout history.

Enzymes:Biochemistry,Biotechnology - Trevor Palmer 2004

ENZYMES: Catalysis, Kinetics and Mechanisms - N.S. Punekar 2018-11-11

This enzymology textbook for graduate and advanced undergraduate students covers the syllabi of most universities where this subject is regularly taught. It focuses on the synchrony between the two broad mechanistic facets of enzymology: the chemical and the kinetic, and also highlights the synergy between enzyme structure and mechanism. Designed for self-study, it explains how to plan enzyme

experiments and subsequently analyze the data collected. The book is divided into five major sections: 1] Introduction to enzymes, 2] Practical aspects, 3] Kinetic Mechanisms, 4] Chemical Mechanisms, and 5] Enzymology Frontiers. Individual concepts are treated as stand-alone chapters; readers can explore any single concept with minimal cross-referencing to the rest of the book. Further, complex approaches requiring specialized techniques and involved experimentation (beyond the reach of an average laboratory) are covered in theory with suitable references to guide readers. The book provides students, researchers and academics in the broad area of biology with a sound theoretical and practical knowledge of enzymes. It also caters to those who do not have a practicing enzymologist to teach them the subject.

Understanding Enzymes - Trevor Palmer 1995

Bd Chaurasia's Human Anatomy, Volume 2 - B. D. Chaurasia 2019-05-30

This popular textbook encompasses the essence of the latest syllabus prescribed by Medical Council of India. All figures have been redrawn to improve lucidity, and many hand-drawn illustrations have been added to help students reproduced the details in their exams. Many new topics and features have been added to make this better than any other textbook in the market.

Voet's Principles of Biochemistry - Donald Voet 2018-09-14

Voet's Principles of Biochemistry, Global Edition addresses the enormous advances in biochemistry, particularly in the areas of structural biology and bioinformatics. It provides a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future. New information related to advances in biochemistry and experimental approaches for studying complex systems are introduced. Notes on a variety of human diseases and pharmacological effectors have been expanded to reflect recent research findings. While continuing in its tradition of presenting complete and balanced coverage, this Global Edition includes new pedagogy and enhanced visuals that provide a clear pathway for student learning.

Enzyme Technology : Pacemaker of Biotechnology - Prasad Nooralabettu Krishna 2011

Biotechnology - David P. Clark 2015-05-16
Biotechnology, Second Edition approaches modern biotechnology from a molecular basis, which has grown out of increasing biochemical understanding of genetics and physiology. Using straightforward, less-technical jargon, Clark and Pazdernik introduce each chapter with basic concepts that develop into more specific and detailed applications. This up-to-date text covers a wide realm of topics including forensics, bioethics, and nanobiotechnology using colorful illustrations and concise applications. In addition, the book integrates recent, relevant primary research articles for each chapter, which are presented on an accompanying website. The articles demonstrate key concepts or applications of the concepts presented in the chapter, which allows the reader to see how the foundational knowledge in this textbook bridges into primary research. This book helps readers understand what molecular biotechnology actually is as a scientific discipline, how research in this area is conducted, and how this technology may impact the future. Up-to-date text focuses on modern biotechnology with a molecular foundation Includes clear, color illustrations of key topics and concept Features clearly written without overly technical jargon or complicated examples Provides a comprehensive supplements package with an easy-to-use study guide, full primary research articles that demonstrate how research is conducted, and instructor-only resources

Industrial Microbiology - L. E. Casida 1964

Controversy Catastrophism and Evolution - Trevor Palmer 2012-12-06

In *Controversy*, Trevor Palmer fully documents how traditional gradualistic views of biological and geographic evolution are giving way to a catastrophism that credits cataclysmic events, such as meteorite impacts, for the rapid bursts and abrupt transitions observed in the fossil record. According to the catastrophists, new species do not evolve gradually; they proliferate following sudden mass extinctions. Placing this major change of perspective within the context

of a range of ancient debates, Palmer discusses such topics as the history of the solar system, present-day extraterrestrial threats to earth, hominid evolution, and the fossil record.

Class 6: Ligases - Dietmar Schomburg
2001-06-20

The Springer Handbook of Enzymes provides concise data on some 5,000 enzymes sufficiently well characterized - and here is the second, updated edition. Their application in analytical, synthetic and biotechnology processes as well as in food industry, and for medicinal treatments is added. Data sheets are arranged in their EC-Number sequence. The new edition reflects considerable progress in enzymology: the total material has more than doubled, and the complete 2nd edition consists of 39 volumes plus Synonym Index. Starting in 2009, all newly classified enzymes are treated in Supplement Volumes.

Watchers of the Stars - Patrick Moore
2009-09-30

To commemorate the 400th anniversary of Galileo's historic first recorded astronomical observations and to coincide with the United Nations International Year of Astronomy 2009, Horwood Publishing is delighted to announce the publication of this third edition by Sir Patrick Moore, one of the great presenters of astronomy in our time. It tells the epic story of the historical development of astronomy which caused a revolutionary change in human outlook, in its impact upon both scientific thinking and religious belief. It is a fascinating story, well researched and told in a scholarly yet exciting narrative that will be read with enjoyment and profit by astronomers, historians and the general public. Formerly titled *The Great Astronomical Revolution*, the book includes a new foreword, new illustrations and colour plates, due Autumn 2009.

Bioethics And Biosafety In Biotechnology - V. Sree Krishna 2007-01-01

"Biotechnology has been introduced as a full time course in undergraduate and postgraduate classes including B. Tech. and B.E. (Biotechnology) in all major Indian universities. This book is authored to enlighten about various Bioethics and Biosafety measures one should follow as guidelines. Intellectual Property Rights (IPR) and Protection (IPP) patents, copyrights,

trade secrets, trademarks etc. are discussed in detail in this book."--Ebook Library.

Enzymes - Robert A. Copeland 2004-04-07
Fully updated and expanded-a solid foundation for understanding experimental enzymology. This practical, up-to-date survey is designed for a broad spectrum of biological and chemical scientists who are beginning to delve into modern enzymology. *Enzymes, Second Edition* explains the structural complexities of proteins and enzymes and the mechanisms by which enzymes perform their catalytic functions. The book provides illustrative examples from the contemporary literature to guide the reader through concepts and data analysis procedures. Clear, well-written descriptions simplify the complex mathematical treatment of enzyme kinetic data, and numerous citations at the end of each chapter enable the reader to access the primary literature and more in-depth treatments of specific topics. This Second Edition of *Enzymes: A Practical Introduction to Structure, Mechanism, and Data Analysis* features refined and expanded coverage of many concepts, while retaining the introductory nature of the book. Important new features include: A new chapter on protein-ligand binding equilibria Expanded coverage of chemical mechanisms in enzyme catalysis and experimental measurements of enzyme activity Updated and refined discussions of enzyme inhibitors and multiple substrate reactions Coverage of current practical applications to the study of enzymology Supplemented with appendices providing contact information for suppliers of reagents and equipment for enzyme studies, as well as a survey of useful Internet sites and computer software for enzymatic data analysis, *Enzymes, Second Edition* is the ultimate practical guide for scientists and students in biochemical, pharmaceutical, biotechnical, medicinal, and agricultural/food-related research.

New and Future Developments in Microbial Biotechnology and Bioengineering - Ram Prasad 2018-02-20

Crop Improvement through Microbial Biotechnology explains how certain techniques can be used to manipulate plant growth and development, focusing on the cross-kingdom transfer of genes to incorporate novel

phenotypes in plants, including the utilization of microbes at every step, from cloning and characterization, to the production of a genetically engineered plant. This book covers microbial biotechnology in sustainable agriculture, aiming to improve crop productivity under stress conditions. It includes sections on genes encoding avirulence factors of bacteria and fungi, viral coat proteins of plant viruses, chitinase from fungi, virulence factors from nematodes and mycoplasma, insecticidal toxins from *Bacillus thuringiensis*, and herbicide tolerance enzymes from bacteria. Introduces the principles of microbial biotechnology and its application in crop improvement Lists various new developments in enhancing plant productivity and efficiency Explains the mechanisms of plant/microbial interactions and the beneficial use of these interactions in crop improvement Explores various bacteria classes and their beneficial effects in plant growth and efficiency

Marks' Basic Medical Biochemistry - Michael Lieberman 2017-07-25

Connect biochemistry to clinical practice! Marks' Basic Medical Biochemistry links biochemistry to physiology and pathophysiology, allowing students to apply fundamental concepts to the practice of medicine - from diagnosing patients to recommending effective treatments. Intuitively organized chapters center on hypothetical patient vignettes, highlighting the material's clinical applications; helpful icons allow for smooth navigation, making complex concepts easier to grasp. Full-color illustrations make chemical structures and biochemical pathways easy to visualize. Patient vignettes connect biochemistry to human health and disease. Clinical Notes explain patient signs or symptoms, and Method Notes relate biochemistry to the laboratory tests ordered during diagnosis. Clinical Comments link biochemical dynamics to treatment options and patient outcomes. Biochemical Comments explore directions for new research. Key Concepts and Summary Disease tables highlight the take-home messages in each chapter. Questions and answers at the end of each chapter - 470 total inside the book, with 560 more online - probe students' mastery of key concepts. Additional handy resources available

online make it easy to review all diseases and all methods covered throughout the book and to find references for further information and study
Enzyme Kinetics - Alejandro G. Marangoni
2003-04-23

Practical Enzyme Kinetics provides a practical how-to guide for beginning students, technicians, and non-specialists for evaluating enzyme kinetics using common software packages to perform easy enzymatic analyses.
Textbook of Microbiology & Immunology - Parija
2009

This book provides an up-to-date information on microbial diseases which is an emerging health problem world over. This book presents a comprehensive coverage of basic and clinical microbiology, including immunology, bacteriology, virology, and mycology, in a clear and succinct manner. The text includes morphological features and identification of each organism along with the pathogenesis of diseases, clinical manifestations, diagnostic laboratory tests, treatment, and prevention and control of resulting infections along with most recent advances in the field. About the Author : - Subhash Chandra Parija, MD, PhD, DSc, FRCPath, is Director-Professor and Head, Department of Microbiology, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry, India. Professor Parija, author of more than 200 research publications and 5 textbooks, is the recipient of more than 20 National and International Awards including the most prestigious Dr BC Roy National Award of the Medical Council of India for his immense contribution in the field of Medical Microbiology.

Principles and Techniques of Biochemistry and Molecular Biology - Keith Wilson
2010-03-04

This best-selling undergraduate textbook provides an introduction to key experimental techniques from across the biosciences. It uniquely integrates the theories and practices that drive the fields of biology and medicine, comprehensively covering both the methods students will encounter in lab classes and those that underpin recent advances and discoveries. Its problem-solving approach continues with worked examples that set a challenge and then show students how the challenge is met. New to

this edition are case studies, for example, that illustrate the relevance of the principles and techniques to the diagnosis and treatment of individual patients. Coverage is expanded to include a section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical biochemistry. Experimental design and the statistical analysis of data are emphasised throughout to ensure students are equipped to successfully plan their own experiments and examine the results obtained.

Medical Biotechnology - Bernard R. Glick
2020-08-06

The future is now—this groundbreaking textbook illustrates how biotechnology has radically changed the way we think about health care. Biotechnology is delivering not only new products to diagnose, prevent, and treat human disease but entirely new approaches to a wide range of difficult biomedical challenges. Because of advances in biotechnology, hundreds of new therapeutic agents, diagnostic tests, and vaccines have been developed and are available in the marketplace. In this jargon-free, easy-to-read textbook, the authors demystify the discipline of medical biotechnology and present a roadmap that provides a fundamental understanding of the wide-ranging approaches pursued by scientists to diagnose, prevent, and treat medical conditions. *Medical Biotechnology* is written to educate premed and medical students, dental students, pharmacists, optometrists, nurses, nutritionists, genetic counselors, hospital administrators, and individuals who are stakeholders in the understanding and advancement of biotechnology and its impact on the practice of modern medicine. Hardcover, 700 pages, full-color illustrations throughout, glossary, index.

Understanding Enzymes - Trevor Palmer 1985

Fundamentals Of Enzymology, 3/E - Nicholas C
Price 2009-10-22

Enzymes: Biochemistry, Biotechnology, Clinical Chemistry, 2nd Ed. - Trevor Palmer
2007

Principles of Biochemistry - Donald Voet

2012-04-01

Voet and Pratt's 4th edition of *Principles of Biochemistry*, challenges readers to better understand the chemistry behind the biological structure and reactions occurring in living systems. The latest edition continues this tradition, and additionally incorporates coverage of recent research and an expanded focus on preparing and supporting students throughout the course. With the addition of new conceptual assessment content to WileyPLUS, providing the opportunity to assess conceptual understanding of key introductory biochemistry concepts and retrain themselves on their misconceptions

Pharmaceutical Biotechnology - Oliver Kayser
2012-05-21

This second edition of a very successful book is thoroughly updated with existing chapters completely rewritten while the content has more than doubled from 16 to 36 chapters. As with the first edition, the focus is on industrial pharmaceutical research, written by a team of industry experts from around the world, while quality and safety management, drug approval and regulation, patenting issues, and biotechnology fundamentals are also covered. In addition, this new edition now not only includes biotech drug development but also the use of biopharmaceuticals in diagnostics and vaccinations. With a foreword by Robert Langer, Kenneth J. Germeshausen Professor of Chemical and Biomedical Engineering at MIT and member of the National Academy of Engineering and the National Academy of Sciences.

Introduction to Enzyme and Coenzyme Chemistry - T. D. H. Bugg 2012-05-29

Enzymes are giant macromolecules which catalyse biochemical reactions. They are remarkable in many ways. Their three-dimensional structures are highly complex, yet they are formed by spontaneous folding of a linear polypeptide chain. Their catalytic properties are far more impressive than synthetic catalysts which operate under more extreme conditions. Each enzyme catalyses a single chemical reaction on a particular chemical substrate with very high enantioselectivity and enantiospecificity at rates which approach "catalytic perfection". Living cells are capable of carrying out a huge

repertoire of enzyme-catalysed chemical reactions, some of which have little or no precedent in organic chemistry. The popular textbook *Introduction to Enzyme and Coenzyme Chemistry* has been thoroughly updated to include information on the most recent advances in our understanding of enzyme action, with additional recent examples from the literature used to illustrate key points. A major new feature is the inclusion of two-colour figures, and the addition of over 40 new figures of the active sites of enzymes discussed in the text, in order to illustrate the interplay between enzyme structure and function. This new edition provides a concise but comprehensive account from the perspective of organic chemistry, what enzymes are, how they work, and how they catalyse many of the major classes of enzymatic reactions, and will continue to prove invaluable to both undergraduate and postgraduate students of organic, bio-organic and medicinal chemistry, chemical biology, biochemistry and biotechnology.

An Introduction to Biotechnology - W T Godbey
2014-12-08

An Introduction to Biotechnology is a biotechnology textbook aimed at undergraduates. It covers the basics of cell biology, biochemistry and molecular biology, and introduces laboratory techniques specific to the technologies addressed in the book; it addresses specific biotechnologies at both the theoretical and application levels. Biotechnology is a field that encompasses both basic science and engineering. There are currently few, if any, biotechnology textbooks that adequately address both areas. Engineering books are equation-heavy and are written in a manner that is very difficult for the non-engineer to understand. Numerous other attempts to present biotechnology are written in a flowery manner with little substance. The author holds one of the first PhDs granted in both biosciences and bioengineering. He is more than an author enamoured with the wow-factor associated with biotechnology; he is a practicing researcher in gene therapy, cell/tissue engineering, and other areas and has been involved with emerging technologies for over a decade. Having made the assertion that there is no acceptable text for teaching a course to introduce biotechnology to

both scientists and engineers, the author committed himself to resolving the issue by writing his own. The book is of interest to a wide audience because it includes the necessary background for understanding how a technology works. Engineering principles are addressed, but in such a way that an instructor can skip the sections without hurting course content. The author has been involved with many biotechnologies through his own direct research experiences. The text is more than a compendium of information - it is an integrated work written by an author who has experienced first-hand the nuances associated with many of the major biotechnologies of general interest today.

Enzymes - T Palmer 2007-04-04

In recent years, there have been considerable developments in techniques for the investigation and utilisation of enzymes. With the assistance of a co-author, this popular student textbook has been updated to include techniques such as membrane chromatography, aqueous phase partitioning, engineering recombinant proteins for purification and due to the rapid advances in bioinformatics/proteomics, a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RPHPLC prior to sequencing by mass spectroscopy. Written with the student firmly in mind, no previous knowledge of biochemistry, and little of chemistry, is assumed. It is intended to provide an introduction to enzymology, and a balanced account of all the various theoretical and applied aspects of the subject which are likely to be included in a course. Provides an introduction to enzymology and a balanced account of the theoretical and applied aspects of the subject. Discusses techniques such as membrane chromatography, aqueous phase partitioning and engineering recombinant proteins for purification. Includes a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RPHPLC prior to sequencing by mass spectroscopy.

Biochemistry - E-book - 2017-05-20

Renowned and recommended textbook in the subject that explains the basic concepts in concise manner. • Is an amalgamation of medical and basic sciences, and is comprehensively written, revised and updated to meet the curriculum requirements of Medical,

Pharmacy, Dental, Veterinary, Biotechnology, Agricultural Sciences, Life Sciences students and others studying Biochemistry as one of the subjects. • Is the first textbook on Biochemistry in English with multi-color illustrations by an author from Asia. The use of multicolor format is for a clear understanding of the complicated structures and biochemical reactions. • Is written in a lucid style with the subject being presented as an engaging story growing from elementary information to the most recent advances, and with theoretical discussions being supplemented with illustrations, tables, biomedical concepts, clinical correlates and case studies for easy understanding of the subject. • Has each chapter beginning with a four-line verse followed by the text with clinical correlates, a summary, and self-assessment exercises. The lively illustrations and text with appropriate headings and sub-headings in bold typeface facilitate reading path clarity and quick recall. All this will the students to master the subject and face the examination with confidence. • Provides the most recent and essential information on Molecular Biology and Biotechnology, and current topics such as Diabetes, Cancer, Free Radicals and Antioxidants, Prostaglandins, etc. • Describes a wide variety of case studies (77) with biomedical

correlations. The case studies are listed at the end of relevant chapters for immediate reference, quick review and better understanding of Biochemistry. • Contains the basics (Bioorganic and Biophysical Chemistry, Tools of Biochemistry, Immunology, and Genetics) for beginners to learn easily Biochemistry, origins of biochemical words, confusables in Biochemistry, principles of Practical Biochemistry, and Clinical Biochemistry Laboratory. • Complimentary access to full e-book and chapter-wise self-assessment exercises.

Fundamentals of Biochemistry - JL Jain et al. 2004-09

In this latest Seventh Edition , five New Chapters (No. 28, 29, 33, 36 and 37) have been added to enhance the scope and utility of the book: three chapters pertain to Bioenergetics and Metabolism (Biosynthesis of Nucleotides, Degradation of Nucleotides, Mineral Metabolism) and two to Nutrition Biochemistry (Principles of Nutrition, Elements of Nutrition). In fact, all the previously-existing 35 chapters have been thoroughly revised, enlarged and updated in the light of recent advancements and the ongoing researches being conducted the world over.