

CHEMISTRY AND CHEMICAL ENGINEERING

Advanced Trace Analysis

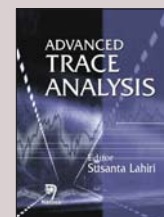
Editor: *Susanta Lahiri*



CONTENTS: Preface / Statistical Approaches in Environmental Epidemiology / Inductively Coupled Plasma Mass Spectrometry for Trace Analysis / Trace Analysis by X-ray Fluorescence / Ion Beam Analysis / Determination of Uranium Speciation in Aqueous Samples by Time-resolved Laser-induced Fluorescence Spectroscopy (TRLFS) / Trace Element Speciation using Greener Techniques / Author Index / Subject Index.

Audience: Undergraduate – Postgraduate Students & Researchers

2010 188 pp. 53Figs. 21TbIs. 185 x 240 570g Hb ISBN: 978-81-8487-029-9 £ 49.95 / US\$ 89.95



Alternate Energy Processes in Chemical Synthesis: Microwave, Ultrasonic and Photo Activation

V.K. Ahluwalia, Rajender S. Varma

Audience: Graduate Students in Chemistry & Chemists

2008 234 pp. 160 x 240 650g Hb ISBN: 978-1-84265-434-7 £ 39.95 / US\$ 79.95

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S.M. Khopkar

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Basic Thermodynamics

E. Guha



Audience: Undergraduate students majoring in Physics and Students of Engineering

Solutions Manual: Available for Teachers (ISBN: 978-1-84265-034-9)

2001 287 pp. 105Figs. 160 x 240 750g Hb ISBN: 978-1-84265-000-4 £ 22.00 / US\$ 44.00

Biochemical Methods of Analysis: Theory and Applications

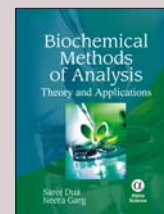
Saroj Dua, Neera Garg



BIOCHEMICAL METHODS OF ANALYSIS: Theory and Applications discusses various analytical techniques like Dialysis and Ultrafiltration, Colorimetry and Spectrophotometry, Chromatography, Electrophoresis, Centrifugation and Radioisotopic techniques that are carried out in biochemistry. The book contains several features intended to assist students in learning these techniques which can be useful for both theoretical and practical purposes. These techniques are described in detail emphasizing the principles on which each technique is based, how it is carried out, apparatus set up, solutions/chemicals used etc. Useful applications of techniques in everyday life have also been stressed upon. Each chapter concludes with a selection of suggested readings.

Audience: Students, Teachers and Researchers in Life Sciences and Chemistry

2010 220 pp. 75Figs. 25TbIs. 185 x 240 570g Hb ISBN: 978-1-84265-590-0 £ 22.50 / US\$ 39.95



Biochemistry

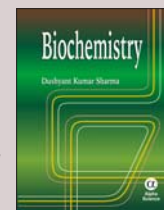
Dushyant Kumar Sharma



CONTENTS: Preface / Introduction / **Part I: Biomolecules** – Physical Properties of Molecules / Carbohydrates / Lipids / Amino Acids / Proteins / Enzymes / Vitamins / Hormones / Alkaloids / Prostaglandins / Nucleic Acids / **Part II: Bioenergetics and Metabolism** – Metabolism of Carbohydrates / Metabolism of Lipids / Metabolism of Proteins / Metabolism of Nucleic Acids / Inborn Errors of Metabolism / **Part III: Gene Concept and Gene Expression** – Gene Concept / Replication and Transcription of DNA / Translation: Protein Synthesis / **Part IV: Techniques** – Chromatography / Spectrophotometry / Electrophoresis / Glossary / Index.

Audience: Undergraduate & Postgraduate Students of Chemistry, Life Sciences and Medicine

2010 280 pp. 84Figs. 17TbIs. 185 x 240 700g Hb ISBN: 978-1-84265-510-8 £ 44.95 / US\$ 89.95



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www.alphasci.com

CHEMISTRY AND CHEMICAL ENGINEERING

Biogenesis of Natural Products

Baldev Kumar, H. K. Chopra

TEXTBOOK

Audience: Undergraduate, Postgraduate Students & Teachers

2005 308 pp. 344Figs. 160 x 240 700g Hb ISBN: 978-1-84265-282-4 £ 29.95 / US\$ 59.95

Biomaterials, Second Edition

S. V. Bhat

TEXTBOOK

Solutions Manual: Available for Teachers (ISBN: 978-1-84265-350-0)

Audience: Senior Undergraduate & Postgraduate Students of Chemical, Biomedical & Engineering

2005 294 pp. 113Figs. 92TbIs. 185 x 240 750g Hb ISBN: 978-1-84265-207-7 £ 59.95 / US\$ 120.00

Catalysis: Principles and Applications

Editors: B. Viswanathan, S. Sivasanker, A. V. Ramaswamy

Audience: Postgraduates, Doctoral Students, Teachers & Researchers

2002 422 pp. 159Figs. 105TbIs. 180 x 240 1040g Hb ISBN: 978-81-7319-375-0 £ 95.00 / US\$ 198.00

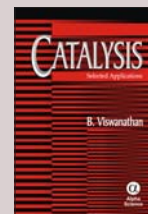
Catalysis: Selected Applications

B. Viswanathan

CONTENTS: Preface / Challenges in Catalysis / Role of Catalysis in Sustainable Development / Catalysis over Solid Acids and Bases / Metal Support Interaction / Electro-Catalysis / Homogeneous Catalysis and Fine Chemicals / Mass Transfer Effects in Chemical Reactions / Index.

Audience: Graduate Students and Researchers

2009 188 pp. 91Figs. 33TbIs. 160 x 240 480g Hb ISBN: 978-1-84265-344-9 £ 34.95 / US\$ 64.95



Catalysis in Petroleum and Petrochemical Industries

Editors: K. G. Bhattacharyya, A. K. Talukdar

Audience: Students & Researchers in Chemistry, Chemical & Oil/Petrochemical Engineering

2005 284 pp. 92Figs. 121TbIs. 185 x 240 800g Hb ISBN: 978-81-7319-576-1 £ 68.00 / US\$ 138.00

Catalysts and Surfaces: Characterization Techniques

B. Viswanathan, S. Kannan, R. C. Deka

NEW

TEXTBOOK

Surfaces have always been fascinating for scientists, since nearly all chemical and biological transformations occur at the interface. In the last four decades or so, a variety of surface analytical techniques have been developed to examine both static and dynamic aspects of surfaces and interfaces. The information that could be obtained by employing these techniques can be varied, but can reach the limit of directly observing even in visual mode (by suitable microscopy) the interactions and morphologies up to molecular level resolution or deducing the nature of transformations at molecular level by appropriate electron, ion, photon induced spectroscopic techniques. There are also a variety of techniques based on thermal input. It is clear that all these analytical tools have changed our ability to examine the surfaces and surface induced transformations to a high degree of molecular resolution and the present book considers some of them with appropriate case studies.

Audience: Undergraduate & Postgraduate Students

2010 236 pp. 164Figs. 40TbIs. 185 x 240 650g Hb ISBN: 978-1-84265-315-9 £ 54.95 / US\$ 110.00



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CHEMISTRY AND CHEMICAL ENGINEERING

Chemistry for Green Environment

Editors: *M. M. Srivastava, R. Sanghi*

Audience: Students, Teachers, Researchers & Professionals

2005 385 pp. 58Figs. 45TbIs. 185 x 240 950g Hb ISBN: 978-81-7319-620-1 £ 58.00 / US\$ 118.00

Chemistry of Natural Products

S. V. Bhat, B. A. Nagasampagi, S. Minakshi

Audience: Graduate, Postgraduate Students, Teachers, Researchers & Industries

2005 874 pp. 465Figs. 106TbIs. 185 x 240 1900g Hb ISBN: 978-81-7319-481-8 £ 85.00 / US\$ 170.00

Composite Materials: *Production, Properties, Testing and Applications*

K. Srinivasan

TEXTBOOK

Composite Materials: Production, Properties, Testing and Applications discusses in detail reinforcements, matrices, composites such as MMCs, PMCs, CMCs, CCCs and IMCs alongwith production processes, properties and applications, and also testing of composites both destructive and nondestructive. Mechanics of composites based on rule of mixtures at an introductory level and numerical problems add value to the book. The importance of composite materials as engineered materials in modern society is clearly brought out.



Audience: Undergraduate Students in Metallurgical, Materials, Mechanical & Chemical Engineering

2009 146 pp. 160 x 240 400g Hb ISBN: 978-1-84265-491-0 £ 19.95 / US\$ 39.95

Composite Materials

S. C. Sharma

TEXTBOOK

Audience: Senior Graduate & Postgraduate Students, Scientists & Technologists

2000 151 pp. 155 x 230 300g Pb ISBN: 978-81-7319-257-9 £ 18.00 / US\$ 35.00

Computer Control of Processes

M. Chidambaram

TEXTBOOK

Audience: Postgraduate Students in Chemical, Mechanical, Instrumentation & Control Engineering

2002 298 pp. 165Figs. 180 x 240 700g Hb ISBN: 978-1-84265-063-9 £ 48.00 / US\$ 95.00

Computers and their Applications to Chemistry, *Second Edition*

R. Kumari

TEXTBOOK

Audience: Undergraduate Students

2005 356 pp. 185 x 240 900g Hb ISBN: 978-1-84265-258-9 £ 34.95 / US\$ 69.95

Control of Unstable Systems

R. Padma Sree, M. Chidambaram

TEXTBOOK

Audience: Postgraduate Students & Researchers

2006 313 pp. 160Figs. 54TbIs. 185 x 240 850g Hb ISBN: 978-1-84265-287-9 £ 49.95 / US\$ 98.00

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CHEMISTRY AND CHEMICAL ENGINEERING

Coordination Compounds: *Bonding, Structure and Nomenclature*

R. D. Wijesekera

TEXTBOOK

Audience: Undergraduate Students & Lecturers

2008 98 pp. 37Figs. 11TbIs. 160 x 240 400g Hb ISBN: 978-1-84265-475-0

£ 9.95 / US\$ 19.95

Current Trends in Engineering Practice

Editor: C. V. Ramakrishnan

Audience: Graduate, Postgraduate Students, Teachers & Professionals

2006 659 pp. 185 x 240 1400g Hb ISBN: 978-81-7319-689-8

£ 69.90 / US\$ 135.00

Current Trends in Engineering Practice, Volume II

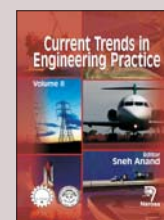
Editor: Sneh Anand

NEW

Current Trends in Engineering Practice Volume II deals with recent developments and practices adopted in various projects in different engineering disciplines and specializations - Rock Dredging; Concrete Technology; Grid Computing; Electric Propulsion & the Stationary Plasma Thruster; Turbocharging; Ultrafiltration, Nanofiltration & Reverse Osmosis; FACTS Devices; Sensors; Advanced Materials for Aircraft and Helicopters; Data Communication and Network Protocol; Satellite Communication Systems; Optoelectronic Devices; Wireless Communication; Applications of CFD Techniques in Aero-propulsive Characterization of Missiles; Hazardous Waste Management; Liquid Fueled SCRAMJET Combustors; Armour Materials and Designs; Heat Transfer in Nuclear Reactors; Defence Electronics Systems; World Class Manufacturing; Value Engineering & Engineering Ethics.

Audience: Graduate, Postgraduate Students, Teachers & Professionals

2010 738 pp. 384Figs. 75TbIs. 185 x 240 1350g Hb ISBN: 978-81-8487-019-0 £ 99.90 / US\$ 189.90



Detection of Common Inorganic Ions: *Environment Friendly Tests*

A. Ahmad

TEXTBOOK

Audience: Undergraduate Students, Professionals & Researchers

1999 139 pp. 140 x 215 152g Pb ISBN: 978-81-7319-209-8

£ 12.00 / US\$ 24.00

Engineering Chemistry: *A Textbook*

H. K. Chopra, A. Parmar

TEXTBOOK

Audience: Undergraduate Students in Chemistry & Engineering

2007 624 pp. 396Figs. 58TbIs. 185 x 240 1350g Hb ISBN: 978-1-84265-362-3

£ 54.95 / US\$ 98.00

Enzymes for Green Organic Synthesis

V. K. Ahluwalia

NEW

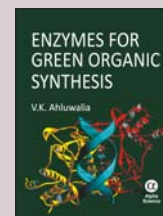
TEXTBOOK

CONTENTS: Preface / Introduction / Coenzymes / Some Specific Enzymes / Enzymes in Organic Synthesis / Enzymatic Synthesis of Biologically Active Natural Products and Analogues / Enzymatic Transformations in Green Solvents / Some Miscellaneous Enzymatic Transformations / Enzyme-Catalysed Reactions using Microwaves / Use of Enzymes in Food Technology / Index.

Audience: Postgraduate Students, Professionals, Researchers and Industry

2010 190 pp. 185 x 240 550g Hb ISBN: 978-1-84265-647-1

£ 39.95 / US\$ 74.95



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CHEMISTRY AND CHEMICAL ENGINEERING

Essentials of Crystallography

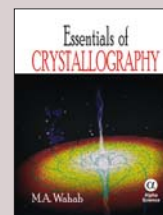
M. A. Wahab

TEXTBOOK

Essentials of Crystallography presents a comprehensive study of the essential aspects of crystallography. The topics include a detail discussion of geometry and symmetry of crystals, a simplified approach to derive the point groups and space groups, methods of crystal growth and related theories, imperfections in crystalline solids, various diffraction methods, procedures for solving crystal structures and computing methods in crystallography. Keeping in view the diverse nature of readers, the treatments and the mathematics used in the book have been kept as simple as possible.

Audience: Postgraduate Students & Researchers in Physics, Chemistry, Biology, Mineralogy

2009 332 pp. 228Figs. 48TbIs. 185 x 240 750g Hb ISBN: 978-1-84265-392-0 £ 49.95 / US\$ 98.00



Finite Element Method: Fundamentals and Applications

Pramote Dechaumphai

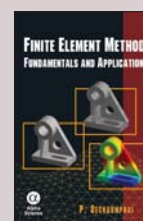
NEW

TEXTBOOK

FINITE ELEMENT METHOD: Fundamentals and Applications, presents in a clear, easy-to-understand manner fundamentals and applications of the finite element method. The book is divided into two parts suitable for undergraduate and graduate courses. The first part consisting of five chapters presents fundamentals of the finite element method in their simplest forms. Such fundamentals are explained in detail with accompanied examples and exercises. The second part consisting of three major chapters present the formulation and applications of the method for structural, heat transfer, and fluid flow problems. For the structural problems, the static and dynamic analysis using truss, beam, plane, plate and solid elements are presented. Finite element formulations for analyzing conduction, convection and radiation heat transfer problems under steady-state and transient conditions are explained in detail. For the fluid flow problems, finite element formulations for different classes of flow behaviors such as the potential, viscous, incompressible and compressible flows are also discussed.

Audience: Undergraduate Students in Aeronautical, Mathematics, Civil, Chemical and Mechanical Engineering

2010 572 pp. 342Figs. 185 x 240 1050g Hb ISBN: 978-1-84265-621-1 £ 44.95 / US\$ 94.95



Food Chemistry

Harish Kumar Chopra, Parmjit Singh Panesar

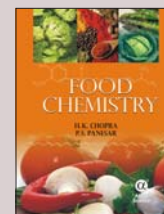
NEW

TEXTBOOK

Food Chemistry covers in detail different chemical reactions occurring in foods. The first chapter on fundamental reactions compares the basic organic functional group transformations with biosynthetic reactions in foods. The chapter on water covers the role of water in various food processes/methodologies. Other chapters on basic biochemical compounds like lipids, carbohydrates, proteins and enzymes explain the chemistry of these compounds in simple and logical manner. The chapter on food additives explains the structure and chemistry of important chemical compounds acting as additives in food chemistry. The subsequent chapters focus on pigments, flavors, sweeteners and vitamins explaining their chemistry and importance in food science and technology.

Audience: Undergraduate and Postgraduate Students, Professionals and Researchers

2010 588 pp. 579Figs. 105TbIs. 185 x 240 1250g Hb ISBN: 978-1-84265-599-3 £ 59.95 / US\$ 99.95



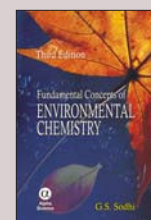
Fundamental Concepts of Environmental Chemistry, Third Edition

G. S. Sodhi

The third edition of *Fundamental Concepts of Environmental Chemistry* discusses the influence of environmental factors on living organisms and their nonliving surroundings with special reference to issues related to human health. Topics like energy conservation, acid rain, catalytic converters, delimitation of lakes, ozone depletion, eutrophication, natural fungicides and waste management, which have a bearing on the progress of the society are also incorporated. The schedule of toxic chemicals includes polynuclear aromatic hydrocarbons, methyl isocyanate, heavy metals and cyanides. Updated references and relevant websites are provided at the end of each chapter.

Audience: Graduate & Postgraduate Students

2009 602 pp. 164Figs. 66TbIs. 160 x 240 1100g Hb ISBN: 978-1-84265-394-4 £ 44.95 / US\$ 79.95



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CHEMISTRY AND CHEMICAL ENGINEERING

Green Chemistry: *Environment Friendly Alternatives*

Editors: R. Sanghi, M. M. Srivasatava

TEXTBOOK

Audience: Students of Chemistry & Environmental Science

2003 372 pp. 63Figs. 30TbIs. 160 x 240 700g Hb ISBN: 978-81-7319-523-5 £ 55.00 / US\$ 110.00

Green Chemistry: *Greener Alternatives to Synthetic Organic Transformations*

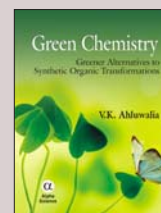
V. K. Ahluwalia

FORTHCOMING

GREEN CHEMISTRY deals with environmentally benign organic transformations. The book is divided into two parts. The first part deals with introduction, principles of green chemistry and planning a green synthesis. In the second part synthetic organic transformations in aqueous phase, solid phase, photochemical transformations, using phase transfer catalysts, using sonication, microwaves, enzymatic transformations, transformations in ionic liquids, polyethylene glycol and also transformations using polymer support reagents are discussed. Besides, some miscellaneous transformations are also described. The experimental details of a large number of transformations in all the above heads are given.

Audience: Undergraduate and Postgraduate Students and Researchers in Chemistry

2011 300 pp. 185 x 240 Hb ISBN: 978-1-84265-650-1 £ 39.95 / US\$ 79.95



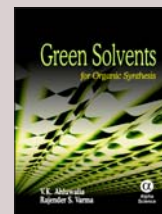
Green Solvents: *For Organic Synthesis*

V. K. Ahluwalia, Rajender S. Varma

CONTENTS: Preface / PART-I: Use of Water as a Solvent for Organic Reaction / Organic Reaction in Super Critical Water or in Near Water Region / Microwave Assisted Organic Reactions in Water / Organic Synthesis using Biocatalysts / PART-II: Organic Synthesis in Super Critical Carbon Dioxide / Organic Synthesis using Carbon Dioxide / PART-III: Organic Synthesis using Ionic Liquids / PART-IV: Polyethylene Glycol and its Solutions as Green Reaction Medium of Future / PART-V: Organic Synthesis using Fluorous Phase Techniques / Index.

Audience: Postgraduate Students & Researchers in Chemistry, Environmental Science and Green Chemistry

2009 346 pp. 185 x 240 775g Hb ISBN: 978-1-84265-520-7 £ 49.95 / US\$ 99.00



Introduction to Atomic and Molecular Spectroscopy

V. K. Jain

Audience: Senior Under and Graduate Students, Researchers & Teachers

2007 394 pp. 172Figs. 185 x 240 950g Hb ISBN: 978-1-84265-357-9 £ 32.00 / US\$ 64.00

An Introduction to Nanophysics and Nanotechnology

Avinashi Kapoor, Partha Goswami

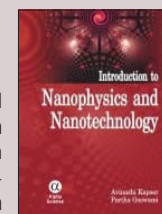
FORTHCOMING

TEXTBOOK

An Introduction to Nanophysics and Nanotechnology provides a unique, self-contained introduction to the physical concepts, techniques and applications of nano-structured systems by covering the entire gamut from the single-electron and molecular electronics to the latest problems, such as the hybridization between localized state (c-state) of a quantum dot and a Fermi sea conduction band leading to the presence of the Kondo peak in the c-electron spectrum, the non-equilibrium Green's function approach to explain the sub-band absorption in the context of the growth-direction quantization of confined electron gas in a Ga As/AlGaAs based quantum well structure, etc.

Audience: Postgraduate Students, Teachers and Researchers

2011 600 pp. 185 x 240 Hb ISBN: 978-1-84265-600-6 £ 59.95 / US\$ 99.95



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CHEMISTRY AND CHEMICAL ENGINEERING

An Introduction to Physical Chemistry

D. K. Chakrabarty

TEXTBOOK

Audience: Undergraduate Students

Solutions Manual: Available for Teachers (ISBN: 978-1-84265-042-4)

2001 409 pp. 137Figs. 160 x 240 750g Hb ISBN: 978-1-84265-059-2 £ 25.00 / US\$ 49.00

Introduction to Statistical Mechanics

S. K. Sinha

TEXTBOOK

Audience: Undergraduate & Postgraduate Students, Researchers & Professionals

2005 465 pp. 98Figs. 8TbIs. 185 x 240 1000g Hb ISBN: 978-1-84265-302-9 £ 49.95 / US\$ 95.00

An Introductory Course of Statistical Mechanics

P. B. Pal

TEXTBOOK

Audience: Undergraduate & Postgraduate Students in Physics

2008 396 pp. 56 Figs. 160 x 240 1000g Hb ISBN: 978-1-84265-436-1 £ 39.95 / US\$ 79.95

Introductory Practical Biochemistry

Editors: S. K. Sawhney, R. Singh

TEXTBOOK

Audience: Undergraduate-Postgraduate Students of Biochemistry, Microbiology, Instructors & Researchers

2005 470 pp. 160 x 240 850g Hb ISBN: 978-1-84265-245-9 £ 22.00 / US\$ 44.00

Ion Conducting Materials: Theory and Applications

Editors: A. R. Kulkarni, P. Gopalan

Audience: Graduate Students & Researchers of Solid State Ionics, Material Science, Solid State Chemistry & Electrochemistry

2001 224 pp. 162Figs. 185 x 240 700g Hb ISBN: 978-81-7319-401-6 £ 65.00 / US\$ 130.00

Metal Ions in Biochemistry

P. K. Bhattacharya

Audience: Postgraduate Students & Researchers in Chemistry, Biochemistry, Biotechnology & Medicine

2005 228 pp. 166Figs. 185 x 240 700g Hb ISBN: 978-1-84265-240-4 £ 49.95 / US\$ 98.00

Microbial Biochemistry

M. L. Srivastava

Audience: Undergraduate and Postgraduate Students

2008 528 pp. 49Figs. 65TbIs. 185 x 240 1050g Hb ISBN: 978-1-84265-424-8 £ 44.95 / US\$ 89.95

Molecular Spectroscopy

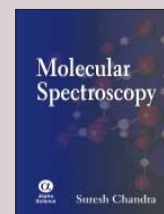
Suresh Chandra

TEXTBOOK

Molecular Spectroscopy introduces the topic in a systematic manner and discusses the Quantum Theory of Valence, Molecular Symmetry, Rotational Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, Electronic Spectra of Diatomic Molecules, Nuclear Magnetic Resonance, Electron Spin Resonance, Mössbauer Spectroscopy, Laser Spectroscopy and Photoelectron Spectroscopy. These topics, are explained with the help of simple exercises using simple language.

Audience: Postgraduate Students of Physics, Chemistry & Biotechnology, Teachers & Researchers

2009 274 pp. 112 Figs. 22TbIs. 160 x 240 570g Hb ISBN: 978-1-84265-608-2 £ 39.95 / US\$ 79.95



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CHEMISTRY AND CHEMICAL ENGINEERING

Nano Materials

B. Viswanathan

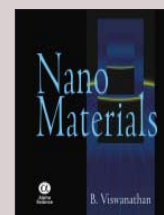
NEW

TEXTBOOK

Nanoscience broadly deals with science and technology of materials on the atomic and molecular scale, normally 1 to 100 nanometers. In view of considerable developments in the fabrication of devices within this size range in various fields such as applied physics, materials science, interface and colloid science, device physics, supramolecular chemistry, self-replicating machines and robotics, chemical engineering, mechanical engineering, and electrical engineering including drug delivery and in sensing low concentrations, this book focuses on the applications of Nanoscience and Nanotechnology.

Audience: Undergraduate – Postgraduate Students & Researchers in Engineering and Chemistry

2009 250 pp. 120 Figs. 27TbIs. 185 x 240 600g Hb ISBN: 978-1-84265-494-1 £ 24.95 / US\$ 49.95



Natural Pigments

V. K. Ahluwalia

NEW

A large number of pigments occur naturally and are widely distributed. The presence of these pigments is responsible for various colours. These pigments also exhibit various biological activities in mammals, the most important being antioxidant activity. Besides this, the pigments have many other biological activities including antimicrobial, anticancer, mitochondrial-adhesion inhibition, antiarthritic, estrogenic and prostaglandin synthesis inhibition etc. The most important use of natural pigments is that they are used as food colorants. *Natural Pigments* describes different types of Natural pigments including Pyrone pigments (Chromones, Flavones, Flavanones, Flavonols, Isoflavones, Aurones, Anthocyanidins, Xanthones, Coumarins), Quinones pigments, Pyrrole pigments (Chlorophyll, Haemin, Haemoglobin) and Carotenoids (α , β , γ -carotenes and Lycopene) alongwith the methods of structural elucidation and methods of synthesis and properties.

Audience: Undergraduate – Postgraduate Students & Researchers in Chemistry

2010 202 pp. 160 x 240 520g Hb ISBN: 978-1-84265-579-5 £ 39.95 / US\$ 79.95



Natural Products: Chemistry and Applications

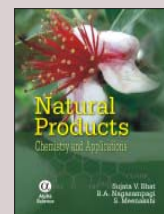
Sujata V. Bhat, B. A. Nagasampagi, S. Meenakshi

TEXTBOOK

CONTENTS: Preface / General Introduction / Steroids / Terpenoids / Fatty Lipids and Prostaglandins / Alkaloids / Amino Acids and Proteins / Nucleic Acids / Carbohydrates / Insect and Plant Growth Regulators / Phenolics, Natural Dyes and Pigments / Marine Natural Products / Antibacterials / Vitamins / Some Fascinating Synthesis of Natural Products / Enzyme Applications in Organic Synthesis / Further Reading / Subject Index.

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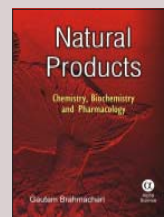
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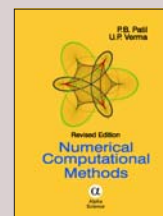
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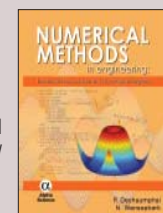
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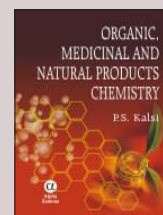
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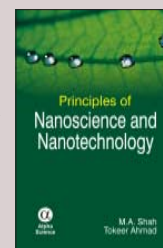
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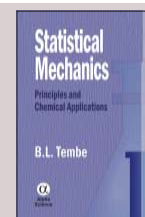
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