

Pharmaceutical Chemistry

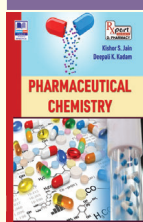
- ▶ Organic Chemistry
- ▶ Organic Chemistry Practicals
- ▶ Inorganic Chemistry
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- ▶ Heterocyclic Chemistry

Medicinal Chemistry

- ▶ Medicinal Chemistry
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- ▶ Drug Design and Discovery



STUDENT FRIENDLY BOOKS WRITTEN AS PER PCI SYLLABUS BY DISTINGUISHED AUTHORS



Pharmaceutical Chemistry

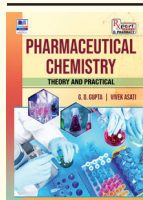
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Kishor Jain & Deepali Kadam

Contents: 1. Introduction to Pharmaceutical Chemistry 2. Introduction to Pharmaceutical Chemistry 3.1 Haematinics 3.2 Gastro-Intestinal Agents 3.3 Topical Agents 3.4 Dental Products 3.5 Medicinal Gases 4. Introduction to Nomenclature 5. Drugs Acting on Central Nervous System: Anaesthetics 5.2 Drugs Acting on Central Nervous System: Sedatives and Hypnotics 5.3 Drugs Acting on the Central Nervous System: Antipsychotics 5.4 Drugs Acting on the Central Nervous System: Anticonvulsants 5.5 Drugs Acting on the Central Nervous System: Antidepressants 6.1 Drugs Acting on Autonomic Nervous System: Sympathomimetic Agents 6.2 Drugs Acting on Autonomic Nervous System: Adrenergic Antagonists 6.3 Drugs Acting on Autonomic Nervous System: Cholinergic Drugs and Related Agents 6.4 Drugs Acting on Autonomic Nervous System: Cholinergic Blocking Agents: Natural & Synthetic 7.1 Anti-Arhythmic Drugs 7.2 Anti-Hypertensive Agents 7.3 Antianginal Agents 8. Diuretics 9. Hypoglycemic Agents 10. Analgesic and Anti-Inflammatory Agents 11.1 Antifungal Agents 11.2 Urinary Tract Anti-Infective Agents 11.3 Anti-Infective Agents: Antitubercular Agents 11.4 Antiviral Agents 11.5 Anti-Infective Agents: Antimalarials 11.6 Sulfonamides 12. Antibiotics 13. Anti-Neoplastic Agents

2023 | 9789395039031 | 551 pp | BSPMP | PB | TBA



Pharmaceutical Chemistry: Theory and Practical

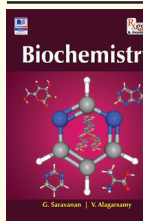


G. D. Gupta & Vivek Asati

NEW

Contents: 1. Introduction to Pharmaceutical Chemistry 2. Volumetric Analysis 3. Inorganic Pharmaceuticals 4. Introduction to Nomenclature of Organic Chemical Systems 5. Drugs Acting on Central Nervous System 6. Drugs Acting on Autonomic Nervous System 7. Drugs Acting on Cardiovascular System 8. Diuretics 9. Hypoglycemic Agents 10. Analgesic and Anti-Inflammatory Agents 11. Anti-Infective Agents 12. Antibiotics 13. Anti-Neoplastic Agents

2023 | 9789395039093 | 369 pp | BSPMP | PB | Rs. 495.00



Biochemistry

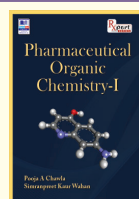


G. Saravanan & V. Alagarsamy

NEW

Contents: 1. Biomolecules & Bioenergetics 2. Carbohydrates Metabolism & Biological Oxidation 3. Lipids Metabolism & Amino Acid Metabolism 4. Nucleic Acid Metabolism 5. Enzymes

2023 | 9789395039284 | BSPMP | 254 pp | PB | Rs. 595.00



Pharmaceutical Organic Chemistry-1



Pooja Abrol Chawla & Simranpreet Kaur Wahan

NEW

Contents: 1. Classification Nomenclature and Isomerism 2. Alkanes Alkanes and Conjugated Dienes 3. Alkyl Halides and Alcohols 4. Carbonyl Compounds 5. Carboxylic Acids and Amines

2022 | 9789391910457 | 182 pp | BSPMP | PB | Rs. 295.00

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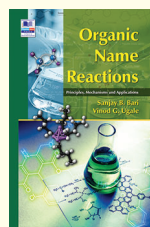
Pharmaceutical Biochemistry - A Comprehensive Approach

NEW

G. Saravanan & V. Alagarsamy

Contents: 1. Introduction to Organic Chemistry 2. Enzymes 3. Carbohydrates & Its Metabolism 4. Lipids & Its Metabolism 5. Protein and Amino Acid Metabolism 6. Nucleic Acid & Its Metabolism 7. Introduction to Clinical Chemistry 8. Kidney Function Tests or Renal Function Tests 9. Liver Function Test 10. Lipid Profile Tests 11. Immunochemical Techniques 12. Water, Electrolytes and Acid-Base Balance

2022 | 9789391910945 | 515 pp | BSPMP | PB | Rs. 895.00



Organic Name Reactions: Principles, Mechanisms and Applications

NEW

Sanjay B. Bari and Vinod G. Ugale

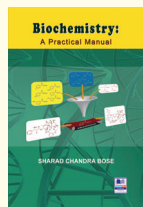
Organic Name Reactions: Principles, Mechanisms and Applications cover 200 organic name reactions, offering students and industrial chemists a valuable resource for conducting experiments and performing wide range of applications, from pharmaceuticals to pesticides. Each reaction listing is clearly organized into discrete uniform sections that allow readers to quickly gather the information they need to understand and conduct their own experimental procedures. This book help the readers to obtain information quickly and conduct their experiments effectively:

(a) Reaction summaries provide basic information about each name reaction, (b) Schematic reaction index offers a quick overview of each reaction, (c) The principle parts of every reaction include categories of reactions and organize all subtypes of organic reactions according to their type of transformations (For example: oxidation, reduction, molecular rearrangement, etc.)

2021 | 9789389354737 | 478 pp | BSPMP | PB | Rs. 495.00

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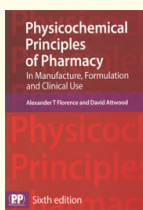


Biochemistry : A Practical Manual

N. Sharath Chandra Bose

Contents: 1. Preparation of Standard Buffers and pH
2. Chemistry of Carbohydrates 3. Chemistry of Lipids
4. Identification of Amino acids 5. Analysis of Drugs
6. Clinical Bio-Chemistry 7. Enzymes 8. Analysis of Milk and Food stuffs
9. Abnormal Constituents of Urine

Rpt. 2022 | 9788188449911 | BSPMP | 102 pp | PB | * Rs. 150.00

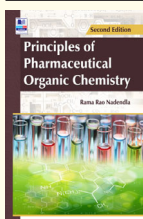


Physicochemical Principles of Pharmacy - In Manufacture, Formulation and Clinical Use, Sixth edition

Alexander T Florence, David Attwood

Contents: 1. Solids 2. Physicochemical properties of drugs in solution 3. Drug stability 4. The solubility of drugs 5. Surfactants 6. Emulsions, suspensions and related colloidal systems 7. Polymers and macromolecules 8. Drug absorption basics and the oral route 9. Parenteral routes of drug administration 10. Paediatric and geriatric formulations 11. Physicochemical interactions and incompatibilities 12. Adverse events: the role of formulations and delivery systems 13. Peptides, proteins and monoclonal antibodies 14. Pharmaceutical nanotechnology 15. Physical assessment of dosage forms 16. Generic medicines and biosimilars

Rpt. 2018 | 9780857111746 | 663 pp | BSPPHP | PB | Rs. 3795.00

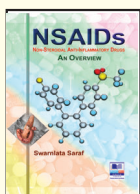


Principles of Pharmaceutical Organic Chemistry, 2nd Ed.

Rama Rao Nadendla

Contents: 1. Atomic Structure 2. Chemical Bonding and Hybridisation 3. Purification and Characterisation of Organic Compounds 4. Electron Displacement Effects 5. Reactive Intermediates 6. Classification and Nomenclature of Organic Compounds 7. Principles of Isomerism 8. Chemistry of Alkanes 9. Chemistry of Alkenes 10. Chemistry of Alkynes 11. Chemistry of Dienes 12. Chemistry of Cycloalkanes 13. Chemistry of Alkyl halides 14. Alcohols 15. Chemistry of Ethers and Epoxides 16. Chemistry of Benzene and Aromaticity 17. Chemistry of Aryl Halides 18. Aromatic Sulphonic Acids 19. Chemistry of Aldehydes and Ketones 20. Carboxylic Acids 21. Chemistry of Carboxylic Acid Derivatives 22. Chemistry of α , β -Unsaturated Carbonyl Compounds 23. Chemistry of Phenols 24. Chemistry of Amines 25. Aromatic Heterocyclic Compounds 26. Carbohydrates 27. Phase-Transfer Catalysis

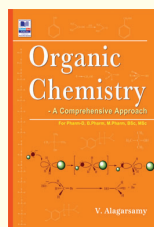
Rpt. 2022 | 9789352301973 | 450 pp | BSPMP | PB | * Rs. 595.00



NSAIDs (Non-steroidal Anti-Inflammatory Drugs) An Overview

Swarnlata Saraf

Rpt.2022 | 9788188449521 | 200 pp | BSPMP | PB | * Rs. 295.00

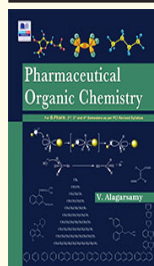


Organic Chemistry - A Comprehensive Approach

V. Alagarsamy

Contents: Part - 1: **Basics in Organic Chemistry**
1. Introduction to organic chemistry; 2. Purification of Organic Compounds 3. Qualitative Analysis (Detection of Elements) 4. Quantitative Analysis 5. Determination of Molecular Mass 6. Nomenclature of Organic Compounds 7. Structure of Organic Molecules and their Relative Properties 8A. Covalent Bond 8B. Influence of Structure on Physical Properties 9. Factors Influencing a Chemical Reaction or Electronic Displacements in Molecules 10. Hydrogen Bonding 11. Organic Reactions and Mechanisms 12. Isomerism 13. General terms used in Organic Chemistry Part - 2: **Aliphatic Compounds**
14. Alkanes 15. Alkenes or Olefins 16. Alkynes or Acetylenes 17. Alkadienes or Dienes or Diolefins 18. Cycloalkanes 19. Alcohols 20. Ethers and Epoxides 21. Thioalcohols and Thioethers 22A. Halogen Derivatives or Alkyl Halides 22B. Nucleophilic Substitution and Elimination Reactions 23. Aldehydes and Ketones 24. Carboxylic Acids 25. Dicarboxylic Acids 26. Substituted Acids-I 27. Functional Derivatives of Carboxylic Acids 28. Fats and Oils 29. Amines, Alkyl Nitrites and Alkyl Nitrates 30. Nitriles or Cyanogen Compounds 31. Organometallic Compounds 32. Active Methylene Group Containing Compounds 33. α , β -Unsaturated Carbonyl Compounds 34. Aliphatic Diazo Compounds Part - 3: **Aromatic Compounds**
35. Introduction to Aromatic Compounds 36. Benzene and its Analogues (Arenes) 37. Aryl Halides 38. Aromatic Sulphonic Acids 39. Aromatic Nitro Compounds 40. Aromatic Amines 41. Aryl Diazonium Salts 42. Phenols 43. Aromatic Aldehydes and Ketones 44. Aromatic Carboxylic Acids and their Derivatives 45. Dyes 46. Polynuclear Hydrocarbons Part - 4: **Special Topics in Organic Chemistry**
47. Oxidation and Reduction 48. Pericyclic Reactions 49. Reactions and Reagents 50. Some Official Medicinal Compounds (Pharm. D.) Part - 5: **Advances in Organic Chemistry**
51. Green Chemistry 52. Microwave Assisted Synthesis 53. Nanochemistry

2019 | 9789387593848 | 1232 pp | BSPMP | PB | Rs. 1495.00

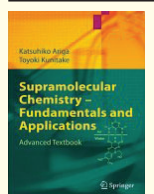


Pharmaceutical Organic Chemistry

V. Alagarsamy

Contents: 1. Introduction to Organic Chemistry 2. Nomenclature of Organic Compounds 3. Structure of Organic Molecules and their Relative Properties 4. Bonds in Organic Compounds 5. Factors Influencing a Chemical Reaction or Electronic Displacements in Molecules 6. Organic Reactions and Mechanism 7. General Terms used in Organic Chemistry 8. Alkanes 9. Alkenes or Olefins 10. Alkadienes or Dienes or Diolefins 11. Cycloalkanes 12. Alcohols 13. Halogen Derivatives or Alkyl Halides 14. Nucleophilic Substitution and Elimination Reactions 15. Aldehydes and Ketones 16. Carboxylic Acids 17. Fats and Oils 18. Amines, Alkyl Nitrites and Alkyl Nitrates 19. Introduction to Aromatic Compounds 20. Benzene and its Analogues (Arenes) 21. Aromatic Amines 22. Aryl Diazonium Salts 23. Phenols 24. Aromatic Carboxylic Acids and their Derivatives 25. Polynuclear Hydrocarbons 26. Isomerism 27. Stereoisomerism 28. Geometrical Isomerism 29. Heterocyclic Compound (Part 1) 30. Heterocyclic Compounds (Part 2) 31. Reactions and Reagents of Synthetic importance

2020 | 9789389354775 | 768 pp | BSPMP | PB | Rs. 995.00



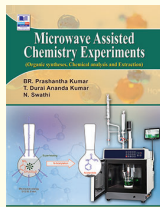
Supramolecular Chemistry - Fundamentals and Applications

Katsuhiko Ariga & Toyoki Kunitake

2006|9783540012986|208 pp|BSPSPR | PB | Rs. 995.00

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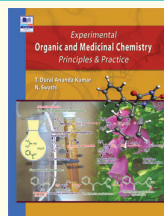


Microwave Assisted Chemistry Experiments (Organic, Synthesis, Chemical Analysis and Extraction)

**B. R. Prashantha Kumar,
T. Durai Ananda Kumar, N. Swathi**

Contents: Part – 1 Introduction 1. Microwave-Assisted Organic Reactions 2. Important Microwave Reactions 3. Optimal Conditions for Microwave-Assisted Organic Synthesis 4. Special Guidelines Part - 2 Organic Synthesis Microwave Intensity and Power (Watts) Acetylation 1. Preparation of Aspirin 2. Preparation of Acetanilide 3. Preparation of N-Acetylanisidine 4. Preparation of Paracetamol 5. Preparation of a-Glucose Pentaacetate Esterification 6. Preparation of Benzocaine 7. Preparation of Butamben Electrophilic Aromatic Substitution 8. Preparation of Nitrobenzene 9. Preparation of m-di-Nitrobenzene 10. Preparation of p-Bromoacetanilide Alkylation 11. Preparation of Methyl-2-Naphthyl Ether 12. Preparation of Anisole Benzillic Acid Rearrangement 13. Preparation of Benzilic acid Claisen-Schmidt Condensation 14. Preparation of Benzylidene Acetophenone 15. Preparation of Benzalacetone Williamson Ether Synthesis 16. Preparation of Phenacetin Fischer Indole Synthesis 17. Preparation of 2-Phenylindole Perkin Reaction 18. Preparation of Cinnamic Acid Hydantoin Synthesis 19. Preparation of Hydantoin Biltz Synthesis 20. Preparation of Phenytoin Schiff Bases 21. Preparation of Furanylmethylidene Aminophenol (Solventless Reaction) 22. Preparation of Furanylmethylidene Aminophenol (Solvent Reaction) Bernthsen Phenothiazine Synthesis 23. Preparation of Phenothiazine Bernthsen Acridine Synthesis 24. Preparation of 9-Phenylacridine Knoevenagel Condensation 25. Preparation of Coumarin 26. Preparation of 5-Arylideneethiazolidine-2,4-dione Hantzsch 1,4-Dihydropyridine Synthesis 27. Preparation of 1, 4-Dihydropyridine 28. Preparation of N-Aryl-1,4-dihydropyridine (Solid Phase Reaction) 29. Preparation of N-Aryl-1,4-dihydropyridine from Schiffbase (Solid Phase Reaction) Radziszewski Imidazole Synthesis 30. Preparation of 2,4,5-Triaryl Imidazole (Solventless Reaction) 31. Preparation of 2,4,5-Triaryl Imidazole (using glacial acetic acid as a solvent) 32. Preparation of Tetraaryl Imidazole 33. Preparation of Tetraaryl Imidazole via Schiff base (Solventless Reaction) 34. Preparation of Tetraaryl Imidazole via Schiff base (Solvent Reaction) Mannich Reaction 35. Preparation of Mannich Base Philips Reaction 36. Preparation of Benzimidazole 37. Preparation of 2-Phenylbenzimidazole 38. Preparation of Benzimidazol-2-one 39. Preparation of Benzimidazolesulphonic Acid Amide Synthesis 40. Preparation of N-Butylbenzamide 41. Preparation of Phthalimide Haloform Reaction 42. Preparation of Iodoform Paal-Knorr Pyrazole Synthesis 43. Preparation of 3-Methyl-1-phenyl pyrazole-5-one Nucleophilic Addition 44. Preparation of Chlorobutanol Oxidation 45. Preparation of Benzil 46. Preparation of 2-Nitrobenzoic Acid 47. Preparation of Benzoic Acid Hydrolysis 48. Preparation of Benzoic Acid 49. Preparation of Benzoic Acid from Phenyl Benzoate Part - 3 Qualitative Analysis 50. Qualitative Analysis of Carbohydrates 51. Preparation of Derivatives of Organic Compounds 52. Degradation of Atropine 53. Degradation of Trimyristin Part - 4 Quantitative Analysis 54. Determination of Saponification Value 55. Determination of Loss On Drying 56. Estimation of Amides 57. Estimation of Esters 58. Estimation of Carbonyl Compounds 59. Assay of Riboflavin 60. Estimation of Aspirin 61. Estimation of Aspirin in Aspirin-Caffeine Tablets Part - 5 Natural Component Isolation 62. Isolation of Red dye from Caesalpinia sappan 63. Isolation of Mucilage from Plants 64. Isolation of Pectins from Plants 65. Isolation of Phenolic Compounds from Grape Seed 66. Isolation of Piperine from Pepper 67. Isolation of Caffeine from Tea

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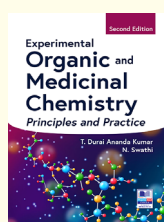


Experimental Organic and Medicinal Chemistry: Principles and Practice

T. Durai Ananda Kumar

Contents: General Laboratory Guidelines and Practices, Preparation of Drug Intermediates and Drugs, Green Synthesis, Estimation of Drugs Present in Formulations, Qualitative Analysis of Inorganic and Organic Compounds, Isolation and Determination of Active Principles from Natural Products, Preparation of Solutions and Reagents

Rpt. 2022 | 9789383635269 | 470 pp | BSPMP | PB | * Rs. 595.00

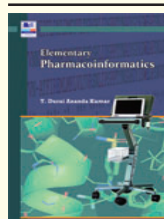


Experimental Organic and Medicinal Chemistry: Principles and Practice, 2nd Ed.

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T. Durai Ananda Kumar and N. Swathi

Contents: 1. Laboratory Practices 2. Laboratory Safety 3. Acylation 4. Alkylation 5. Aromatic Electrophilic Substitution 6. Beckmann Rearrangement 7. Bernthsen Synthesis 8. Biginelli Synthesis 9. Biltz Synthesis 10. Borsche-Drechsel Cyclization 11. Claisen Isoxazole Synthesis 12. Claisen-Schmidt Reaction 13. Diazotization Reaction 14. Erlenmeyer-Plochl Azlactone Synthesis 15. Fischer Indole Synthesis 16. Fischer-Speier Esterification 17. Haloform Reaction 18. Hantzsch 1,4-Dihydropyridine Synthesis 19. Hydrolysis 20. Knoevenagel Condensation 21. Mannich Reaction 22. Oxidation 23. Pall-Knorr Pyrazole Synthesis 24. Pall-Knorr Pyrrole Synthesis 25. Pall-Knorr Thiophene Synthesis 26. Pechmann Reaction 27. Perkin Synthesis 28. Phillips Reaction 29. Quinoxaline Synthesis 30. Radziszewski Reaction 31. Reduction 32. Reimer-Tiemann Reaction 33. Schiff Base Synthesis (Nucleophilic Addition Reaction) 34. Skraup's Synthesis 35. Sulphonamide Synthesis 36. Sulphonate Ester Synthesis (Nucleophilic Substitution Reaction, SN1) 37. Uracil Synthesis 38. Vilsmeier-Haack Reaction 39. Von Baeyer Synthesis 40. Williamson's Ether Synthesis (Nucleophilic Substitution of alkali/alkoxide/aryloxide SN2) 41. Wohl-Ziegler Reaction 42. Semi Quantitative Analysis 43. Analysis of Inorganic Compounds 44. Analysis of Organic Compounds 45. Estimation of Drugs by Acid-Base Titration 46. Estimation of Drugs by Non-Aqueous Titration 47. Estimation of Drugs by Diazotization Titration 48. Estimations of Drugs by Redox Titration 49. Isolation of Alkaloids from Natural Products 50. Isolation of Amino Acid from Natural Products 51. Isolation of Carbohydrates from Natural Products 52. Isolation of Essential Oil from Natural Products 53. Isolation of Glycoside from Natural Products 54. Isolation of Flavanoids from Natural Products 55. Isolation of Terpenoids from Natural Products 56. Qualitative Analysis of Carbohydrates 57. Qualitative Analysis of Amino Acids and Proteins 58. Qualitative Analysis of Alkaloids 59. Qualitative Analysis of Steroids 60. Qualitative Analysis of Terpenes and Terpenoids 61. Qualitative Analysis of Glycosides 62. Physicochemical Characterization of Natural Products 63. Quantitative Determination of Natural Products 64. Degradation of Natural Products



Elementary Pharmacoinformatics

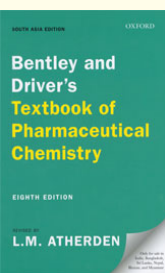
T. Durai Ananda Kumar

Contents: 1. Databases 2. Data Mining 3. Search Machines 4. Drug Information 5. Pharmacy Automation 6. Drug Discovery 7. Drug Development 8. Drug Design 9. Quantitative Structure Activity Relationship (Qsar) 10. Virtual Screening 11. Target Identification 12. Molecular Modeling 13. Docking 14. Arguslab 15. Biological Databases 16. Biophysical Techniques 17. Molecular Biology 18. Homology Modeling 19. Sequence Similarity 20. Dot Matrix 21. Dynamic Programming 22. Heuristic Method 23. Sequence Comparison Methods 24. Phylogenetic Analysis 25. Gene Prediction 26. Scoring System 27. 3d Structure Prediction Using Swiss Model 28. Molecular Visualization 29. Receptors

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Bentley and Driver's Textbook of Pharmaceutical Chemistry

PCI Diploma
ER-2020

Atherden LM

Contents: Part-I: Analytical Methods 1. Physical techniques 2. Gravimetric methods 3. Hydrogen-ion concentration, indicators, and acid-base reactions 4. Determination of pH values 5. Organometallic

complexes in analysis 6. Volumetric methods 7. Photometric methods 8. Measurements of radioactivity 9. Impurities in pharmacopoeial substances **Part-II: Inorganic** 10. Atomic nuclei and radioactivity 11. Periodicity and valency 12. Oxygen and helium 13. Sulphur and selenium 14. The halogens 15. Nitrogen and phosphorus 16. Boron, silicon, and titanium 17. Sodium and potassium 18. Copper, silver and gold 19. Calcium and barium 20. Magnesium, zinc, and mercury 21. Lead 22. Arsenic, antimony, and bismuth 23. Iron and aluminium **Part-III: Organic** 24. Organic compounds, and their purifications 25. Organic formula and nomenclature 26. Saturated hydrocarbons 27. Unsaturated hydrocarbons 28. Alcohols 29. Ethers 30. Aldehydes and ketones 31. Acids 32. Esters 33. Halo-hydrocarbons 34. Di- and tri-hydric alcohols, fats, waxes and soaps 35. Di- and tricarboxylic acids 36. Stereochemistry 37. Cyanogen compounds 38. Amines and related compounds 39. Carbohydrates 40. Benzene and its homologues 41. Aromatic halogen, sulphonic, and nitro-compounds 42. Mechanisms of aromatic substitution 43. Aromatic amines and diazonium compounds 44. Phenols 45. Aromatic alcohols, aldehydes, ketones, and quinines 46. Aromatic carboxylic acids 47. Fused-ring hydrocarbons 48. Constituents of volatile oils, &c. 49. Glycosides 50. Heterocyclic compounds: introductory 51. Pyridine derivatives 52. Piperidine derivatives 53. Quinoline derivatives 54. Pyridine and furan derivatives 55. Pyrazole and imidazole derivatives 56. Diazine derivatives 57. Barbiturates 58. Phenothiazine derivatives 59. Azepine derivatives 60. Local anaesthetics 61. Sulphonamides and sulphones 62. Miscellaneous heterocyclic compounds 63. Amidino-compounds 64. Quaternary ammonium salts 65. Dyes and related compounds 66. Organic compounds of phosphorus, arsenic, antimony, gold, and mercury 67. Proteins and amino-acids 68. Hormones 69. Steroids 70. Vitamins 71. Antibiotics 72. Alkaloids and purines 73. Alkaloidal assays and other extractive processes

Rpt. 2020 | 9780198864479 | 926 pp | BSPPOUP | HB | Rs. 2495.00

Organic Chemistry -

John E. McMurry

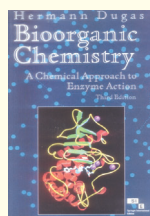
Contents: 1. Structure and Bonding 2. Polar Covalent Bonds; Acids and Bases 3. Organic Compounds: Alkanes and Their Stereochemistry 4. Organic Compounds: Cycloalkanes and Their Stereochemistry 5. Stereochemistry at Tetrahedral Centers 6. An Overview of Organic Reactions 7. Alkenes: Structure and Reactivity 8. Alkenes: Reactions and Synthesis 9. Alkynes: An Introduction to Organic Synthesis

10. Organohalides 11. Reactions of Alkyl Halides: Nucleophilic Substitutions and Eliminations 12. Structure Determination: Mass Spectrometry and Infrared Spectroscopy 13. Structure Determination: Nuclear Magnetic Resonance Spectroscopy 14. Conjugated Compounds and Ultraviolet Spectroscopy 15. Benzene and Aromaticity 16. Chemistry of Benzene: Electrophilic Aromatic Substitution 17. Alcohols and Phenols 18. Ethers and Epoxides; Thiols and Sulfides Preview of Carbonyl Chemistry 19. Aldehydes and Ketones: Nucleophilic Addition Reactions 20. Carboxylic Acids and Nitriles 21. Carboxylic Acid Derivatives: Nucleophilic Acyl Substitution Reactions 22. Carbonyl Alpha-Substitution Reactions 23. Carbonyl Condensation Reactions 24. Amines and Heterocycles 25. Biomolecules: Carbohydrates 26. Biomolecules: Amino Acids, Peptides, and Proteins 27. Biomolecules: Lipids 28. Biomolecules: Nucleic Acids 29. The Organic Chemistry of Metabolic Pathways 30. Orbitals and Organic Chemistry: Pericyclic Reactions 31. Synthetic Polymers

2008 | 9780840054531 | 1375 pp | BSPCEN | PB | Rs. 1995.00

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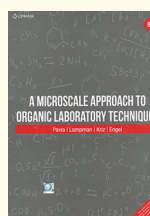
Bioorganic Chemistry: A Chemical Approach to Enzyme Action, 3rd Ed.

Hermann Dugas

Contents: 1. Introduction to Bioorganic Chemistry 2. Bioorganic Chemistry of Amino Acids and Polypeptides 3. Bioorganic Chemistry of the Phosphate Groups and Polynucleotides 4. Enzyme Chemistry 5. Enzyme Models 6. Metal Ions 7. Coenzyme Chemistry 8. Molecular Devices

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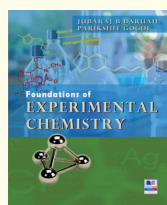


A Microscale Approach to Organic Laboratory Techniques

Pavia

PCI Recommended BP208P | BP305P

Rpt. 2018 | 9789353502379 | BSPCEN | 1054 pp | PB | Rs. 1995.00



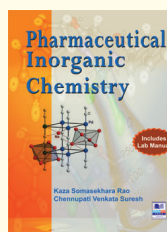
Foundations of Experimental Chemistry

Jubaraj B. Baruah & Parikshit Gogoi

Contents: 1. Experiments with Small Molecules 2. Basis of Experimental Chemistry 3. Experimental Coordination Chemistry 4. Experiments with Organic Compounds 5. Contemporary Experiments of Material Chemistry

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INORGANIC CHEMISTRY



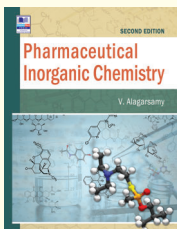
Pharmaceutical Inorganic Chemistry

Kaza Somasekhara Rao & Chennupati Venkata Suresh

Contents: Part - I Theoretical Pharmaceutical Inorganic Chemistry 1. Introduction 2. Atomic and Molecular Structure/Complexes 3. Solutions 4. Treatment of Analytical Data 5. Principles of Quantitative Analysis (Volumetric and Gravimetric Analysis) 6. Pharmaceutical Aids 7. Impurities in Pharmaceutical and their Limit Tests 8. Major Intracellular and Extracellular Electrolytes 9. Gastro intestinal Agents 10. Dental Products 11. Topical Agents 12. Essential Trace Ions 13. Gases and Vapours 14. Radiopharmaceuticals 15. Miscellaneous Pharmaceutical Agents **Part - II Practical Lab Manual** 1. Introduction 2. Apparatus 3. Reagents 4. Inorganic Qualitative Analysis 5. Inorganic Quantitative Analysis 6. Analysis Method of Pharmaceutical Drug Forms 7. Limit Tests 8. Preparation of some inorganic compounds Pharmaceutical Interest.

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INORGANIC CHEMISTRY



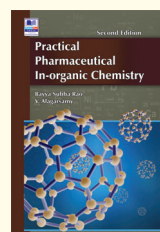
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V. Alagarsamy

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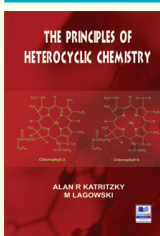
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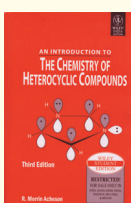


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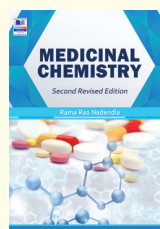
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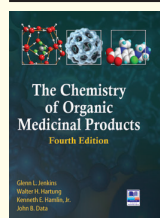


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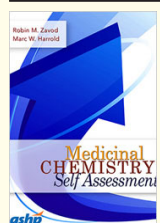


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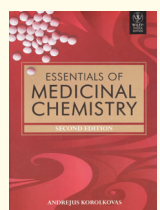
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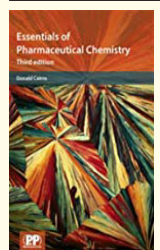
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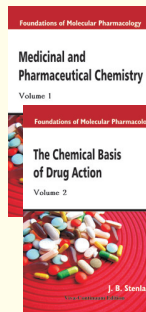


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MEDICINAL CHEMISTRY



Foundations of Molecular Pharmacology, 2 Vol. Set

Vol. 1: Medicinal and Pharmaceutical Chemistry

Vol. 2: The Chemical Basis of Drug Action

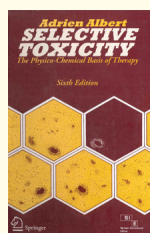
J. B. Stenlake

This book has emerged from some thirty years of teaching undergraduate courses and conducting research in medicinal and pharmaceutical chemistry. It is conceived essentially as a foundation course in the basic principles of organic chemistry applied to the study of medicinal agents and the formulations in which they are used. It is intended primarily to cater for the needs of undergraduate students of pharmacy and medicinal chemistry. To reinforce the continuity of the subject between the two volumes, the author has provided a system of cross-referencing between chapters, both within and between the two volumes. The basic philosophy underlying the text is that those concerned with the design and use of drugs and medicines are interested fundamentally in properties rather than in methods of manufacture. Attention is focused in Volume 1 on the physical and chemical properties of medicinal agents, pharmaceutical additives and cellular components, that determine the way in which they interact with each other. To achieve this end, substantial accounts of relevant intermediary tissue metabolism, drug transport and metabolism, and other factors affecting both stability and availability of drugs from dosage forms have been brought together in the general body of the text. This approach emphasizes the close similarity between chemical and biochemical transformations, and should help to give students and others engaged in the design of new drugs a better understanding of the fundamental mechanisms which control interactions between drugs and body chemistry. The more general, but essentially similar approach to the Chemical Basis of Drug Action adopted in Volume 2, which reinforces the basic principles for the specialist, should also appeal in its own right to clinical pharmacologists and others whose interests lie rather more in the action and use of drugs than in their design. Since this book is designed to assist in the education of students, many of whom will be engaged in later life in the handling and use of drugs in practice, examples are deliberately drawn from drugs in current use.

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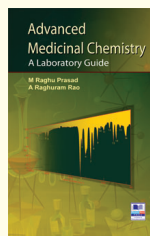


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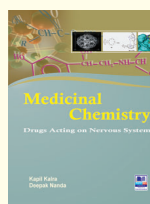


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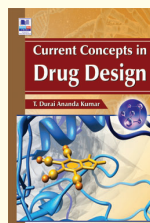


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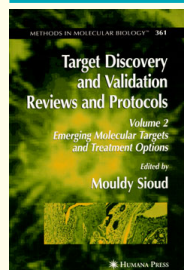


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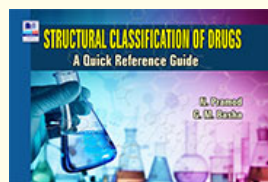
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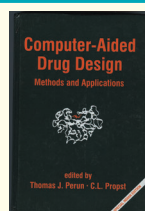


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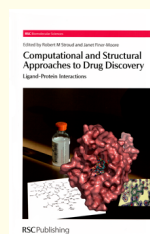
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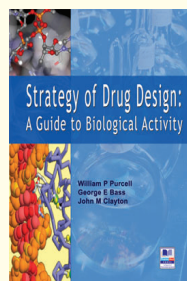
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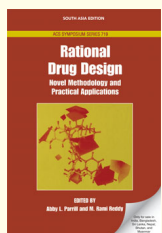
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DRUG DESIGN AND DISCOVERY



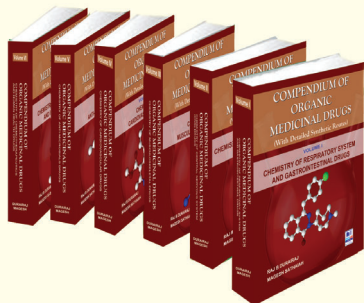
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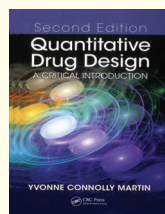
About the Authors

Raj B. Durairaj, Ph.D., is currently working as a Technical Director for Techno WaxChem Pvt Ltd, Kolkata, India. Previously he worked as the Chief Technology Officer at Sino Legend Chemical, China for more than three and half years. In USA, he has worked as the Director of Research at Indspec Chemical Corporation (Manufacturer of Resorcinol and Resins) for 21 years. Dr. Durairaj obtained his Ph.D degree in Synthetic Organic Polymer Chemistry in 1981 from the University of Madras, India. He then moved to USA and worked as a researcher at Case Western Reserve University, Cleveland, Ohio (1981-1982), Drexel University, Philadelphia (1982-1985) and University of Connecticut, Storrs (1985-1986) before joining Koppers Company (Now Indspec Chemical Company) in 1986. For the past 30 years, Dr. Durairaj worked on various aspects of synthetic organic and polymer chemistry. Dr. Durairaj is the author of a book titled "Resorcinol: Chemistry, Technology and Application" published by Springer from Germany in 2005. He has published more than 42 technical papers and presentations published in international journals and proceedings. To his credit, he has published more than 122 international patents and publications. He is the inventor of several commercial (Penacolite® B-20-S) resorcinol based chemicals and resins.

Magesh Sathaiah, MD, is currently working as a Research Associate at the Hillman Cancer Center, University of Pittsburgh Hillman Medical Center (UPMC), Pittsburgh, USA. Previously, he worked as a Research Fellow on a project "Biological Therapy in the Treatment of Cancer", funded by National Institute of Health (NIH), USA for two years. Dr. Magesh Sathaiah graduated from the Dr. MGR Medical University, Chennai in 2005. His research is primarily focused on the novel biological therapies for cancer treatment, which include engineering oncolytic poxviruses for treating colon cancer. He has published more than 10 research papers in both gene therapy and clinical research.

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DRUG DESIGN AND DISCOVERY



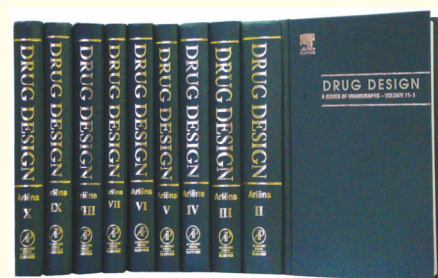
Quantitative Drug Design: A Critical Introduction, 2nd Ed.

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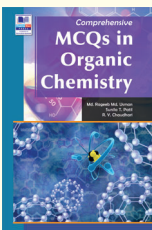
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