

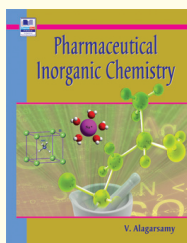
### Experimental Organic and Medicinal Chemistry Principles & Practice

T. Durai Ananda Kumar & N. Swathi

**Contents:** GENERAL LABORATORY GUIDELINES

**AND PRACTICES** 1. General Laboratory Safety 2. General Laboratory Practices **PREPARATION OF DRUG INTERMEDIATES AND DRUGS** 3. Acylation 4. Oxidation 5. Reduction 6. Hydrolysis 7. Aromatic Electrophilic Substitution 8. Beckmann Oxime Rearrangement 9. Biltz Synthesis 10. Erlenmeyer-Plöchl Azlactone Synthesis 11. Fischer-Speier Esterification 12. Williamson's Ether Synthesis 13. Claisen-Schmidt Condensation 14. Knoevenagel Condensation 15. Pechmann Reaction 16. Alkylation 17. Perkin Condensation 18. Wohl-Ziegler Reaction 19. Fischer Indole Synthesis 20. Vilsmeier-Haack Reaction 21. Mannich Reaction 22. Schiff Base 23. Biginelli Reaction 24. Hantzsch 1,4-dihydro Pyridine synthesis 25. Radziszewski Reaction 26. Phillips Reaction 27. Borsche-Drechsel Cyclization 28. Paal-Knorr Pyrrole Synthesis 29. Paal-Knorr Thiophene Synthesis 30. Paal-Knorr Pyrazole Synthesis 31. Reimer-Tiemann Reaction 32. Skrap's Synthesis 33. Von Baeyer Synthesis 34. Diazotization 35. Quinoxaline 36. Bernthsen Synthesis 37. Uracil Synthesis 38. Sulphonamides 39. Isoxazole Synthesis 40. Sulphonic Esters **GREEN SYNTHESIS** 41. Green Synthesis **ESTIMATIONS OF DRUGS PRESENT IN FORMULATIONS** 42. Estimation of Drugs by Acid-Base Titration 43. Estimation of Drugs by Non-Aqueous Titration 44. Estimation of Drugs by Diazotization Titration 45. Estimation of Drugs by Redox Titration **QUALITATIVE ANALYSIS OF INORGANIC AND ORGANIC COMPOUNDS** 46. Quality Control of Pharmaceuticals 47. Qualitative Analysis of Inorganic Compounds 48. Qualitative Analysis of Organic Compounds 49. Qualitative Analysis of Carbohydrates 50. Qualitative Analysis of Amino Acids and Proteins 51. Qualitative Analysis of Alkaloids 52. Qualitative Analysis of Steroids 53. Qualitative Analysis of Terpenoids 55. Qualitative Analysis of Glycosides 55. Colour Tests for the Identification of Drugs 56. Identification of Adultrants **ISOLATION AND DETERMINATION OF ACTIVE PRINCIPLES FROM NATURAL PRODUCTS** 57. Isolation of Active Principles from Natural Products 58. Determination of Active Principles of Natural Products **PREPARATION OF SOLUTION AND REAGENTS** 59. Preparation of Solutions 60. Preparation of Reagents

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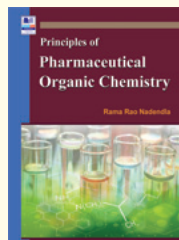


### Pharmaceutical Inorganic Chemistry

V. Alagarsamy

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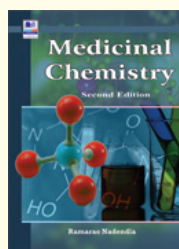


### Principles of Pharmaceutical Organic Chemistry

Rama Rao Nadendla

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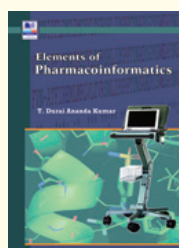


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Rama Rao Nadendla

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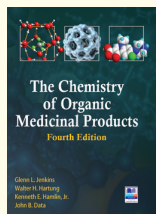


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T. Durai Ananda Kumar

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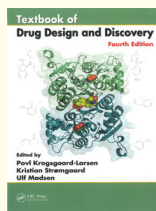


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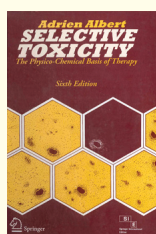


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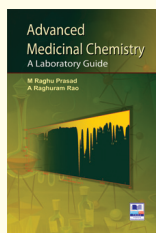


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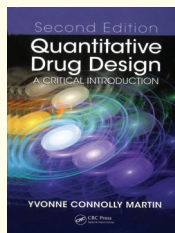


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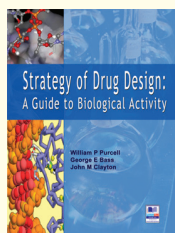
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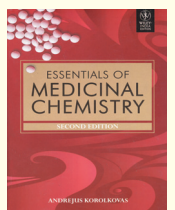


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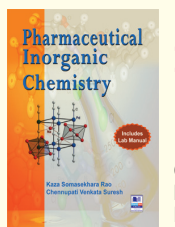


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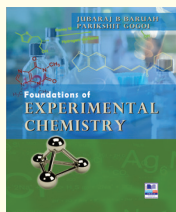


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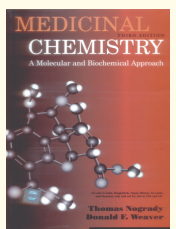


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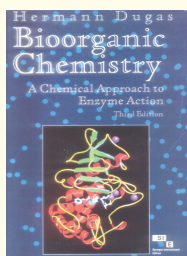


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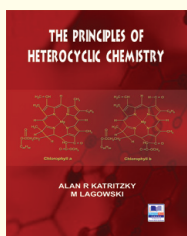


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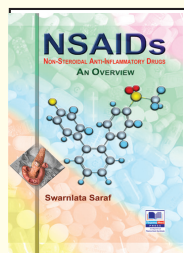


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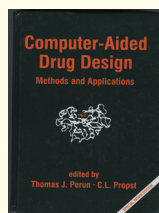
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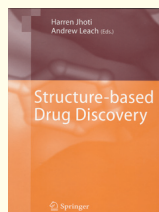
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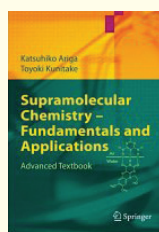
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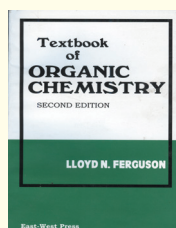
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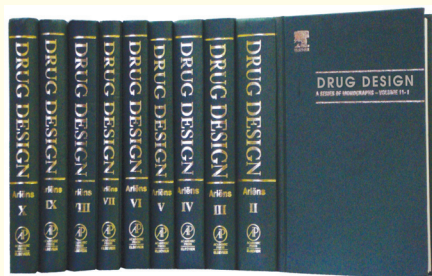
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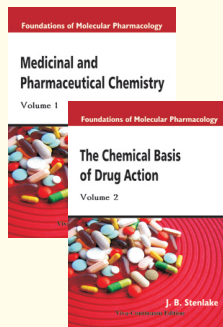
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Vol. 1: Medicinal and Pharmaceutical Chemistry

Vol. 2: The Chemical Basis of Drug Action

J.B. Stenlake



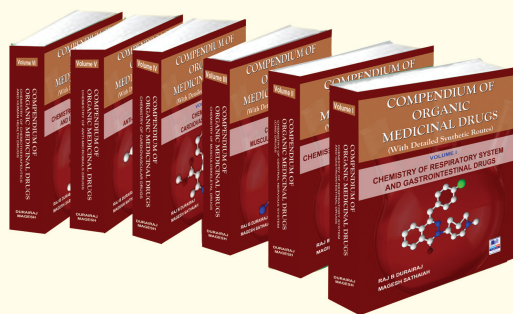
This book has emerged from some thirty years of teaching undergraduate courses and conducting research in medicinal and pharmaceutical chemistry. It is conceived essentially as a foundation course in the basic

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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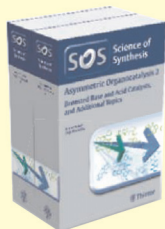
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