

Mathematical Methods In Chemical Engineering

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a working definition of the discipline of chemical ecology might be the study of the structure function origin and significance of naturally occurring compounds that mediate inter and intraspecific interactions between organisms in particular chemical ecology focuses on determining the role of semiochemicals and related compounds in their natural contexts thus chemical ecology is distinct from disciplines such as pharmacology in which compounds are screened for uses outside their natural context for example in the screening of natural products for use as drugs superficially many of the methods used in the various branches of natural products chemistry such as pharmacology and chemical ecology are very similar but each branch has developed its own set of specialized methods for dealing with the problems characteristic of that discipline for example in chemical ecology many semiochemicals are isolated and identified using only a few micrograms or less of material although the same general chromatographic and spectroscopic techniques are used as would be used with the identification of most organic compounds specialized techniques have been developed for handling these very small quantities allowing the maximum amount of information to be recovered from the minimum amount of sample these micro scale techniques and the problems unique to working with very small amounts of sample are rarely covered in detail in reference books on the isolation and identification of biologically active natural chemicals

chemical analysis moves from laboratory to places where samples to be analysed are located this trend is aptly termed on site analysis as the dictum says from sample transfer to information transfer owing to the ever increasing number of samples to be analysed preliminary screening and selection of samples seems to be necessary even in the laboratory rapid test methods of chemical analysis can solve both these tasks this book is devoted to test methods that are widely used in environmental industrial clinical forensic medical and other areas allowing a rapid

simple and cost effective analysis qualitative semi quantitative and quantitative to be performed by trained as well as non trained personnel some general characteristic features of test methods and test systems are described in the book e g definitions advantages and limitations chemical and physical principles of operation procedures and protocols and methodological aspects application of test methods in various areas is extensively overviewed and the test means and test tools pertinent for solving each concrete analytical task are discussed e g paper strips indicator powders and tubes tablets etc the most important applications of test methods evidently are testing for inorganic and organic components in water mostly for purposes of environmental control monitoring of toxic gases and alcohol vapours detection of narcotics and explosives determination of glucose cholesterol and other components of medical importance

this book helps chemical and other engineers develop their skills for solving mathematical models using maple these mathematical models can consist of systems of algebraic ordinary and partial differential equations maple s dsolve is used to obtain solutions for many of these models maple worksheets are provided on the springer website for use by readers to solve the example problems in this book just click on electronic supplementary material and insert the isbn

this book reviews a variety of methods in computational chemistry and their applications in different fields of current research ab initio methods and regression analyses are discussed with special focus on their application to investigate chemical structures as for example dyes or drug compounds further topics are the use of computational methods in the modeling of spectroscopic data or to study reaction mechanisms

drugs and pharmaceutical industry plays a vital role in the economic development of a nation it is one of the largest and most advanced sectors in the world acting as a source for various drugs medicines and their intermediates as well as other pharmaceutical formulations india has come a long way in this field from a country importing more than 95 of its requirement of drugs and pharmaceuticals india now is exporting it even to developed countries being the intense knowledge

driven industry it offers innumerable business opportunities for the investors corporate the world over the existence of well defined and strong pharmaceutical industry is important for promoting and sustaining research and developmental efforts and initiatives in an economy as well as making available the quality medicines to all at affordable prices that is it is essential to improve the health status of the individuals as well as the society as a whole so that positive contributions could be made to the economic growth and regional development of a country on the global platform india holds fourth position in terms of volume and thirteenth position in terms of value of production in pharmaceuticals the pharmaceutical industry has been producing bulk drugs belonging to all major therapeutic groups requiring complicated manufacturing processes as well as a wide range of pharmaceutical machinery and equipments the modern indian pharmaceutical industry is recent and its foundation was laid in the beginning of the current century the pharmaceutical industry can be broadly categorised as bulk drugs formulations iv fluids and pharmaceutical aids such as medical equipment hospital disposables capsules etc special feature of the pharmaceutical industry is a large number of manufacturers in the small scale sector the government is also encouraging the ssi sector providing some incentives the recent developments in the technology and r d work in this field have led to the increased growth rate of industries and have established indian pharmaceutical industries in the international market the content of the book includes information about properties general methods of analysis methods of manufacture of different types of drugs and pharmaceuticals some of the fundamentals of the book are polymeric materials used in drug delivery systems theoretical aspects of friction and lubrication a convenient method for conversion of quinine to quinidine formulation and evaluation of bio available enteric coated erythromycin and metronidazole tablets extraction of virginiamycin antipyretics and analgesics column chromatographic assay of aspirin tablets differentiating titration of phenacetin and caffeine infrared spectra of some compounds of pharmaceutical interest etc this book covers an intensive study on manufacturing production formulation and quality control of drugs and pharmaceuticals with technology involved in it this book is an invaluable resource for technologists professionals and those who want to venture in this field tags pharmaceutical

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