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the book a textbook of organic chemistry was first published 40 years ago over the years it has become students favourite because it explains the subject in the most student friendly way and is revised regularly to keep itself updated with the latest in research this edition presents the modern day basic principles and concepts of the subject as per the cbcs of ugc guidelines special emphasis has been laid on the mechanism and electronic interpretation of reactions of the various classes of compounds it provides a basic foundation of the subject so that based on these students are able to

extrapolate predict and solve challenging problems new in this edition a new chapter energy in biosystems explores the fundamentals of biochemical reactions involved in storage as well as continuous usage of energy in biosystems structural theories like vb and mo hybridization and orbital pictures of resonance and hyperconjugation woodward fieser rules for calculating max and norrisch type i and ii reactions of special photochemical c c cleavage in the chapter on electromagnetic spectrum polanyi hammond postulates and curtin hammett principle along with several new mechanisms e g favorskii baeyer villiger and birch in chapter 5 mcmurry wittig stobbe darzen in chapter 19 study of antibiotics antacids and antihistamines in the chapter on chemotherapy biodegradable and conducting plastics in the chapter on synthetic polymers and plastics benefits of green chemistry the latest trend for sustainable chemistry as appendix ii

due to its simple language straightforward approach to explaining concepts and the right kind of examples this book has established itself as student s companion in almost all leading universities in india with its authentic text and a large number of questions taken from various university examinations coupled with regular revisions the book has served well for more than 20 years now in the attempt to keep the book aligned with various syllabuses and to reach out to students of more and more universities more details have been included for the fourth edition which has been completely recast and reformatted the book is meant for the first year engineering degree courses of indian universities strength of the book numerous solved problems large number of questions from various universities for exhaustive practice boxes featuring important and popular aspects of the topic new in the fourth edition completely recast and reformatted text new topics like cooling curves for one and two component eutectics electrode polarization and overvoltage decomposition potential solar cells pitting corrosion metallurgy and medicine reverse osmosis bioengineering

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chemistry to practical are integrated throughout the book the problems in the book are also a skillful blend of theory and practical applications

since the third edition of this reference was completed there have been major changes in the global chemical industry with less emphasis on new processes for making basic chemicals and more emphasis on pollution prevention and waste disposal petrochemical processes are giving way to biochemical processes these changes are reflected in the new processes being developed many of which have their own names in addition niche improvements are still being made in petrochemistry and some of these processes have new names as well gathering and defining a large portion of special named processes that may fall outside standard chemical texts or be scattered among industry manuals encyclopedic dictionary of named processes in chemical technology fourth edition provides a single source reference on an extensive array of named processes it provides concise descriptions of those processes in chemical technology that are known by special names that are not self explanatory while overviews of the chemical technology industry are present in other books most of the names defined within this volume are unique to this compilation this reference includes named processes in current commercial use around the world processes that have been or are being piloted on a substantial scale and even obsolete processes that have been important in the past the length of the dictionary entries reflects their importance and topicality the text includes references that document the origins of the processes and review the latest developments written by a highly experienced and respected author this user friendly text is presented in a practical dictionary format that is useful for a broad audience including industrial chemists and engineers

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