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the book is revised specifically to address the needs of the latest course curriculum in engineering chemistry for the first semester students of all branches of engineering the topics covered in the book are customarily taught in several universities and institutes the book

exposes students to fundamental knowledge in water technology applications of surface chemistry and concept of nuclear energy and energy storage devices alloys and phase rule electrochemistry and principle involved in corrosion and its inhibition and protective coatings analysis of fuels and combustion key features several worked out examples to help students reinforce their comprehension of theory numerous short and descriptive questions at the end of each chapter to test and foster students conceptual understanding of the subject chapter end problems to help students become proficient in problem solving target audience students of first year be btech all branches

learn the secrets of soil chemistry and its role in agriculture and the environment examine the fundamental laws of soil chemistry how they affect dissolution cation and anion exchange and other reactions explore how water can form water bridges and hydrogen bonding the most common forces in adsorption chelation and more discover how electrical charges develop in soils creating electrochemical potentials forcing ions to move into the plant body through barriers such as root membranes nourishing crops and plants you can do all this and more with principles of soil chemistry fourth edition since the first edition published in 1982 this resource has made a name for itself as a textbook for upper level undergraduates and as a handy reference for professionals and scientists this fourth edition reexamines the entire reach of soil chemistry while maintaining the clear concise style that made previous editions so user friendly by completely revising updating and incorporating a decade s worth of new information author kim tan has made this edition an entirely new and better book see what s new in the fourth edition reexamines atoms as the smallest particle that will enter into chemical reactions by probing new advances testifying the presence of subatomic particles and concepts such as string theory underscores oxygen as the key element in soil air and atmosphere for life on earth reevaluates the idea of transformation of orthoclase into albite by simple cation exchange reactions as misleading and bending scientific concepts of ion exchange over the limit of truth examines the role of fertilizers sulfur pyrite acid rain and nitrogen fixation in soil acidity underscoring the controversial effect of nitrification on increasing soil acidity over time addresses the old and new approaches to humic acids by comparing the traditional operational concept against the currently proposed supramolecular and pseudomicellar concept proposes soil organics such as nucleic acids of dna and others to also adsorb cation ions held as diffusive ion clouds around the polymers tan explains in easy and simple language the chemical make up of the four soil constituents their chemical reactions and interactions in soils as governed by basic chemical laws and their importance in agriculture industry and the environment he

differentiates soil chemistry from geochemistry and physical chemistry containing more than 200 equations 123 figures and 38 tables this popular text and resource supplies a comprehensive treatment of soil chemistry that builds a foundation for work in environmental pollution organic and inorganic soil contamination and potential ecological health and environmental health risks

new edition of the acclaimed organic chemistry text that brings exceptional clarity and coherence to the course by focusing on the relationship between structure and function

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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