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Electronic Charges of Bonds in Organic Compounds

2019-10-02

electronic charges of bonds in organic compounds discusses trends in the electronic theory of
structure and reactivity of organic compounds this book focuses on simple and diverse methods that
calculate the electronic charges of bonds from the results of physical methods of investigation this text
is divided into 10 chapters in chapter i brief information is provided about the work of other research
workers on the electronic charges of bonds and organic compounds chapters ii to vi elaborate on the
relationship of the electronic charges of bonds to the physical and physicochemical characteristics of
molecules and their structural elements the relationship between the electronic charges of bonds and
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Introduction to solid state physics 1

2021-08-01

the material of this book was chosen in a simple manner to clarify the basic concepts of crystallography structure properties of crystalline materials and the dependence of these properties on crystal structure however its contents were presented in terms of educational way to facilitate the handling of its scientific concepts this book contains seven chapters covering one semester course in solid state physics the sequence of content is a brief review of bonding in solid materials the characteristics of the solid state crystal structure the types of structural defects in crystalline materials concept and various experimental methods for x ray diffraction in crystalline materials lattice vibrations and phonon concept and more than 1300 solved mcqs mmcqs and true and false questions in addition to solved examples exercises and problems this book can be considered as a useful reference for students of faculties of science and also for students studying materials science in the faculties of engineering or higher technical institutes

Modern Chemistry

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Self-Help to CBSE Science Tenth Class Part 2 Chemistry (Solutions of Lakhmir Singh & Manjit Kaur)

2023-02-23

this book includes the answers to the questions given in the textbook cbse science tenth class part 2 chemistry published by s chand co and written by lakhmir singh and manjit kaur this book is based for latest syllabus

An Introduction to Spectroscopic Methods for the Identification of Organic Compounds

2012

an introduction to spectroscopic methods for the identification of organic compounds volume 2 covers the theoretical aspects and some applications of certain spectroscopic methods for organic compound identification this book is composed of 10 chapters and begins with an introduction to the structure determination from mass spectra the subsequent chapter presents some mass spectrometry seminar problems and answers this presentation is followed by discussions on the problems concerning the application of uv spectroscopy and electron spin resonance spectroscopy other chapters deal with some advances and development in nmr spectroscopy and the elucidation of structural formula of organic compounds by a combination of spectral methods the final chapter surveys seminar problems and answers in the identification of organic compounds using nmr ir uv and mass spectroscopy this book will prove useful to organic and analytical chemists

Electron Capture Negative Ionization Mass Spectrometry of Steroids and Similar Electrophilic Compounds

2017-08-14

cyanobacteria formerly called blue green algae are the most primitive form of algae under plant kingdom these are called blue green algae because they contain the photosynthetic pigments phycocyanin dominant pigment phycoerythrin and chlorophyll a which are responsible for their characteristic blue green colour they are known by different names such as blue green algae or cyanobacteria schizobacteria or myxobacteria myxophyceae and cyanophyceae these are the first plant forms which got the power of chlorophyll in their thylakoids and started the life supporting process of photosynthesis on the earth inoculation of crop plants with nitrogen fixing microbes in the form of biofertilizers has become an accepted biotechnology in us germany brazil israel egypt china india and some other parts of the world also the paddy field ecosystem provides a favorable environment for the growth of cyanobacteria blue green algae with respect to their requirements for light water high temperature and nutrient availability cyanobacteria produce and secrete a variety of

biological substances such as auxins indole acetic acid indole butyric acid naphthalene acetic acid gibberellins ga1 to ga3 and vitamins which promote the crop growth cyanobacteria can also reduce the oxidizable matter of the soil remove soil compaction narrow the c n ratio and facilitate the aeration in the rhizosphere zone environmental stresses influence a plethora of physiological activities in living organisms cellular adaptation to environmental stress is the major process that protects organism from deleterious effects of various stresses like pesticide salt temperature heavy metals etc being cosmopolitan in distribution cyanobacteria are thought to have been exposed to different levels and types of stressors during their development thus providing a suitable system for analyzing the adaptive mechanisms developed in response to changing stress conditions looking into the enormous potentiality of cyanobacteria the authors have presented their intensive investigation in the form of a book response of cyanobacteria to herbicides a biochemical and molecular approach to explore morphological changes such as color of the cells cell shape and heterocyst frequency of herbicide treated cyanobacterial species such as *Anabaena fertilissima* rao *Aulosira fertilissima* ghose and *Westiellopsis prolifica* janet variations in pigment contents like chlorophyll a total carotenoids phycobilin pigments phycocyanin phycoerythrin and allophycocyanin of herbicide treated cyanobacterial species response of metabolites like carbohydrates amino acids proteins phenols and activity of enzymes like nitrate reductase glutamine synthetase and succinate dehydrogenase of herbicide treated cyanobacterial species functional group variation and detoxicants of herbicide treated cyanobacterial species protein profiling by sodium dodecyl sulfate polyacrylamide gel electrophoresis sds page genomic dna profiling by random amplified polymorphic dna rapd and molecular characterization by 16s rDNA amplification of all three selected species of cyanobacteria the present book would be helpful in enriching the knowledge of readers about herbicidal toxicology biochemical response and molecular aspects of cyanobacteria at lab scale as well as field studies

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Organic Chemistry

2018-07-30

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