

Principles Of General Chemistry Silberberg 2nd Edition

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chemistry seeks to provide qualitative and quantitative explanations for the observed behaviour of elements and their compounds doing so involves making use of three types of representation the macro the empirical properties of substances the sub micro the natures of the entities giving rise to those properties and the symbolic the number of entities involved in any changes that take place although understanding this triplet relationship is a key aspect of chemical education there is considerable evidence that students find great difficulty in achieving mastery of the ideas involved in bringing together the work of leading chemistry educators who are researching the triplet relationship at the secondary and university levels the book discusses the learning involved the problems that students encounter and successful approaches to teaching based on the reported research the editors argue for a coherent model for understanding the triplet relationship in chemical education

molecular and laser spectroscopy advances and applications provides students and researchers with an up to date understanding of the fast developing area of molecular and laser

spectroscopy editor v p gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach first covering basic principles needed to understand each cutting edge technique and application this book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field the book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence biomedical research environmental monitoring forensic investigations food and agriculture and chemical pharmaceutical and petrochemical processes researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work covers several areas of spectroscopy research in a single volume saving researchers time includes exhaustive lists of research articles reviews and books at the end of each chapter to point readers in the right direction for further learning features illustrative examples of the varied applications serves as a practical guide to those interested in using molecular and laser spectroscopy tools in their research and field applications

this is a reference tool designed to guide the reader through all the aspects of chemistry showing the myriad of ways in which chemistry plays a role both seen and unseen in our daily lives this work also makes the foundations of chemistry accessible for the lay reader

although several monographs and reviews have appeared on individual polymers of this type and their applications and other technical aspects have also been discussed this is apparently the first book to deal with the physical chemistry of water soluble synthetic polymers as a group this collective survey enables their properties and behaviour to be compared and to be correlated with their molecular structures for predictive purposes however this has made it necessary to critically re appraise much of the earlier fundamental work so that current discussion of more recent work can be put on a proper basis thus of the 1800 or so references cited the middle two thirds related to the twenty year period centred on about 1968 nevertheless sufficient key recent references have also been included so that the existing state of the art is delineated

an in depth review of important preparative methods for the synthesis and chemical modification of polymers this authoritative second edition examines the advantages and limitations of various polymerization applications and procedures it features new approaches and innovative strategies from the most prominent industry and academic laboratories

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