

O.V. Roussak and H.D. Gesser

Applied Chemistry

A Textbook for Engineers and Technologists

Second Edition

Applied Chemistry A Textbook For Engineers And Technologists

Lei Huang



Applied Chemistry A Textbook For Engineers And Technologists:

Applied Chemistry Oleg Roussak, H. D. Gesser, 2012-09-27 This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

Applied Chemistry: A Textbook for Engineers and Technologists H. D. Gesser, This book is the result of teaching a one semester course in Applied Chemistry Chemistry 224 to second year engineering students for over 15 years. The contents of the course evolved as the interests and needs of both the students and Engineering Faculty changed. All the students had at least one semester of Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics, Chemical Kinetics, Solution Equilibrium and Organic Chemistry. These topics must be discussed either before starting the Applied subjects or developed as required if the students are not familiar with these prerequisites. Engineering students often ask, "Why is another Chemistry course required for Non Chemical Engineers?" There are many answers to this question but foremost is that the Professional Engineer must know when to consult a Chemist and be able to communicate with him. When this is not done the consequences can be a disaster due to faulty design, poor choice of materials or inadequate safety factors. Examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously.

Applied Chemistry H. D. Gesser, 2014-09-01 Applied Chemistry for Engineers R. M. E. Diamant, 1972 A Guide Book of Experiments in Applied Chemistry Dr Vinod Jena, 2017-06-18 The development of science and technology has been giving us a lot of benefits. Chemistry is a field which has greatly contributed to the development. The advanced technology has often required the basic research. Therefore the Course of Applied Chemistry covers a variety of chemical fields working on various materials including metal compounds, inorganic and organic compounds, polymers, proteins etc. doing basic researches and their applications.

Applied Chemistry for Engineers Rudolph Maximilian Eugen Diamant, 1970 Chemistry for Technologists G. R. Palin, 2014-05-17 Chemistry for Technologists provides a basic text on chemical principles written specifically for the technologists. The topics covered are those of basic chemistry. Definitions of such terms as chemical reactions, stoichiometry and atomic structures are made simple so as not to require prior technical background of the subject. The book introduces the student to topics such as structural chemistry, physical chemistry, organic chemistry and inorganic chemistry. A chapter on analytical chemistry is also provided. The chapter focuses on method of analysis such as routine methods, electrometric methods and chromatographic methods. Chromatography is a type of separation method which is discussed in detail. Different types of chromatography are also enumerated. The waves, mechanics and hydrogen atom are fully covered. The electronic nature of bonding and bonding between two hydrogen atoms are discussed in detail. The ionic crystals, molecular crystals and covalent crystals are presented completely. The text will be a useful tool for technology students and practising technologists.

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