

OBJECTIVES:

- To make the students conversant with boiler feed water requirements, related problems and water treatment techniques.
- Principles of electrochemical reactions, redox reactions in corrosion of materials and methods for corrosion prevention and protection of materials.
- Principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells.
- Preparation, properties and applications of engineering materials.
- Types of fuels, calorific value calculations, manufacture of solid, liquid and gaseous fuels.

UNIT I WATER TECHNOLOGY**9**

Introduction to boiler feed water-requirements-formation of deposits in steam boilers and heat exchangers- disadvantages (wastage of fuels, decrease in efficiency, boiler explosion) prevention of scale formation -softening of hard water -external treatment zeolite and demineralization - internal treatment- boiler compounds (phosphate, calgon, carbonate, colloidal)- caustic embrittlement-boiler corrosion-priming and foaming- desalination of brackish water -reverse osmosis.

UNIT II ELECTROCHEMISTRY AND CORROSION**9**

Electrochemical cell - redox reaction, electrode potential- origin of electrode potential- oxidation potential- reduction potential, measurement and applications - electrochemical series and its significance - Nernst equation (derivation and problems). Corrosion- causes- factors- types-chemical, electrochemical corrosion (galvanic, differential aeration), corrosion control - material selection and design aspects - electrochemical protection -sacrificial anode method and impressed current cathodic method. Paints- constituents and function. Electroplating of Copper and electroless plating of nickel.

UNIT III ENERGY SOURCES**9**

Introduction- nuclear energy- nuclear fission- controlled nuclear fission- nuclear fusion- differences between nuclear fission and fusion- nuclear chain reactions- nuclear reactor power generator- classification of nuclear reactor- light water reactor- breeder reactor- solar energy conversion- solar cells- wind energy. Batteries and fuel cells:Types of batteries- alkaline battery- lead storage battery- nickel-cadmium battery- lithium battery- fuel cell H_2 - O_2 fuel cell- applications.

UNIT IV ENGINEERING MATERIALS**9**

Abrasives: definition, classification or types, grinding wheel, abrasive paper and cloth. Refractories: definition, characteristics, classification, properties - refractoriness and RUL, dimensional stability, thermal spalling, thermal expansion, porosity; Manufacture of alumina, magnesite and silicon carbide, Portland cement- manufacture and properties - setting and hardening of cement, special cement- waterproof and white cement-properties and uses. Glass - manufacture, types, properties and uses.

UNIT V FUELS AND COMBUSTION**9**

Fuel: Introduction- classification of fuels- calorific value- higher and lower calorific values- coal-analysis of coal (proximate and ultimate)- carbonization- manufacture of metallurgical coke (Otto Hoffmann method) - petroleum- manufacture of synthetic petrol (Bergius process)- knocking- octane number - diesel oil- cetane number - natural gas- compressed natural gas(CNG)- liquefied petroleum gases(LPG)- producer gas- water gas. Power alcohol and bio diesel. Combustion of fuels: introduction- theoretical calculation of calorific value- calculation of stoichiometry of fuel and air ratio- ignition temperature- explosive range - flue gas analysis (ORSAT Method).

TOTAL: 45 PERIODS**OUTCOMES:**

The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.

Engineering Chemistry Notes From Anna University

SJ Ball



Engineering Chemistry Notes From Anna University:

Engineering Chemistry-I (For 1st Semester of Anna University) Arun Luiz T., Engineering Chemistry I

Engineering Chemistry-I (Anna University) M.V. Sureshkumar & P. Anilkumar, Engineering Chemistry I serves as a textbook for the first semester course for I year BE B Tech students of Anna University Chennai The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers The theoretical portions have been explained in simple language clear style with lot of solved problems and illustrated diagrams Academic and industrial communities will find this book a valuable resource KEY FEATURES Specifically designed for I year B E students of colleges affiliated to Anna University Chennai The chapters are presented in simple language Suitable diagrams for clear understanding of the concepts The recent developments in the respective fields are included in all the chapters Comparative tables are presented where ever two similar concepts arise Many solved problems Review questions from previous Anna University examinations at the end of each chapter *The Journal of Industrial and Engineering Chemistry* ,1915 **Journal of Industrial and Engineering Chemistry** ,1922

Industrial & Engineering Chemistry ,1915 **Experiment Station Record** U.S. Office of Experiment Stations,United States. Agricultural Research Service,United States. Office of Experiment Stations,1909 Experiment Station Record United States. Office of Experiment Stations,1909 **Experiment Station Record** ,1909 **The American School Board Journal** William George Bruce,William Conrad Bruce,1897 Directory of Government Document Collections & Librarians ,1984 **Women and Science** Marilyn B. Ogilvie,Kerry L. Meek,2018-12-07 First Published in 1996 Following the author s previous work Women in Science Antiquity through the Nineteenth Century in 1986 an increased interest in feminism science and gender issues resulted in this subsequent title This book will be valuable to scholars working in a variety of academic areas and will be useful at different educational levels from secondary through graduate school This annotated bibliography of approximately 2700 entries also includes fields nationality periods persons institutions reference and theme indexes Technical Note ,1919 Bookseller ,1886 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **The United States Catalog** Mary Burnham,Carol Hurd,1928 **The Dial** ,1913 Chemical and Engineering News ,1955 **The Nation** ,1895 **The Bookseller and the Stationery Trades' Journal** ,1887 Official organ of the book trade of the United Kingdom *The Academy* ,1892 Publishers' circular and booksellers' record ,1887

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