

MASS TRANSFER (Lab Manual)

List of Experiments:-

1. To determine the Liquid phase mass transfer mass transfer coefficient in a wetted wall column
2. (a) To determine the diffusion coefficient of an organic vapour i.e. CCl_4 in Air
(b) To study the effect of temperature on the diffusion co-efficient
3. To determine the mass transfer coefficient in Humidification and Dehumidification
4. To determine the Vapour-Liquid Equilibrium (VLE) curve for the CCl_4 -toluene mixture (Computerized)
5. To determine the Vapour-Liquid Equilibrium (VLE) curve for the CCl_4 -toluene mixture

Mass Transfer Lab Manual Viva Voce

Louis Theodore, Francesco Ricci



Mass Transfer Lab Manual Viva Voce:

Comprehensive Lab Manual Science VII Dr. N. K. Sharma, 2011-11 *ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION* NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab, and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions, and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with Analog and digital devices, Design of circuits, Instruments, and procedures for electronic test and measurement. Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17

Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments, 5 from each section. 8 activities, 4 from each section during the academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments. B Evaluation Scheme for Practical Examination: One experiment from any one section, 8 Marks. Two activities, one from each section, 4 + 4 = 8 Marks. Practical record, experiments, activities, 6 Marks. Record of demonstration experiments, Viva based on these experiments, 3 Marks. Viva on experiments, activities, 5 Marks. Total 30 Marks.

Section A Experiments

- 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
- 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.
- 3 To verify the laws of combination, series, parallel, of resistances using a metre bridge.
- 4 To compare the emf of two given primary cells using potentiometer.
- 5 To determine the internal resistance of given primary cells using potentiometer.
- 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit.
- 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same.
- 8 To find the frequency of the a.c. mains with a sonometer.

Activities

- 1 To measure the resistance and impedance of an inductor with or without iron core.
- 2 To measure resistance, voltage, AC, DC current, AC and check continuity of a given circuit using multimeter.
- 3 To assemble a household circuit comprising three bulbs, three on/off switches, a fuse, and a power source.
- 4 To assemble the components of a given electrical circuit.
- 5 To study the variation in potential drop with length of a wire for a steady current.
- 6 To draw the diagram of a given open circuit comprising at least a battery, resistor, rheostat, key, ammeter, and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section B Experiments

- 1 To find the value of v for different

values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the $I-V$ characteristic curve of a $p-n$ junction in forward bias and reverse bias 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter $n-p-n$ or $p-n-p$ transistor and to find out the values of current and voltage gains

Activities 1 To study effect of intensity of light by varying distance of the source on a LDR 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between $n-p-n$ and $p-n-p$ type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component e.g diode transistor or IC is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarization of light using two Polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

Suggested Investigatory Projects 1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Lab Manual-Physics-TB-12_E-R Dr R K Gupta, Lab Manual Physics TB 12_E R *Physics Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual *Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications)* Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal, 2021-07-03 Highly Useful for Various Engineering and Medical Competitive Examinations **Industrial Pharmacy I** Dr Vijay Sharma, Dr Amit Kumar, Mr

Gurvinder Pal Singh, Dr Gyanendra Singh, Dr Navneet Verma, 2024-11-12 The Lab Manual for Industrial Pharmacy I is an essential text that equips students with practical knowledge and hands on experience in pharmaceutical manufacturing. Designed to complement the course the manual focuses on understanding and appreciating the impact of pharmaceutical additives and various dosage forms on drug performance. By providing detailed protocols and guidelines for experiments the manual allows students to explore the complexities of different pharmaceutical forms such as tablets capsules eye drops cold creams and vanishing creams. It aims to bridge theoretical knowledge with practical skills ensuring students can effectively apply their understanding of dosage form development and manufacturing techniques. Upon completion students are expected to achieve several key objectives. They will gain comprehensive knowledge about the various pharmaceutical dosage forms and the specific techniques used to manufacture them. The manual covers considerations essential for developing effective pharmaceutical products including the selection and use of additives. Students will also learn to formulate various dosage forms and evaluation for quality and efficacy. By emphasizing both the scientific and practical aspects of pharmaceutical engineering the manual prepares students to tackle real world challenges in drug formulation and quality control fostering a deeper understanding of how dosage forms influence drug performance.

Forthcoming Books

Rose Army, 1992 *Solutions Manual for Mass Transfer* Basmadjian/Diran, 2007-03-01 **Mass Transfer Operations for the Practicing Engineer** Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations. This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems. Both traditional and novel mass transfer processes receive treatment. As with all of the books in this series emphasis is placed on an example based approach to illustrating key engineering concepts. The book is divided into two major parts. It starts with the principles underlying engineering problems showing readers how to apply general engineering principles to the topic of mass transfer operations. It then goes on to provide step by step guidance for traditional mass transfer operations including distillation absorption and stripping and adsorption plus novel mass transfer processes. Essential topics for professional engineering exams are also covered. Geared towards chemical environmental civil and mechanical engineers working on real world industrial applications. Mass Transfer Operations for the Practicing Engineer features Numerous sample problems and solutions with real world applications. Clear precise explanations on how to carry out the basic calculations associated with mass transfer operations. Coverage of topics from the ground up for readers without prior knowledge of the subject. Overview of topics relevant to the ABET Accreditation Board for Engineering and Technology for those taking the Professional Engineering PE exams. Appendix containing relevant mass transfer operation charts and tables.

Solutions Manual for Mass Transfer Laurie Kelly, 2004-04 **MASS TRANSFER** N. Anantharaman, K. M. Meera Sheriffa Begum, 2011-05 Mass transfer operations are of great importance in a process industry as it has a direct impact on the cost of the final product. A chemical

process engineer therefore should have sound knowledge of the basics of mass transfer and its applications This book is designed to equip the reader with sufficient knowledge of mass transfer operations and face the challenges ahead The objective of this textbook is to teach a budding chemical engineer the principles involved in analyzing a process and apply the desired mass transfer operation to separate the components involved It deals with operations involving diffusion interphase mass transfer humidification drying crystallization absorption distillation extraction leaching and adsorption The principles and equipment used for different mass transfer operations have been lucidly explained Designed for a two semester course this text is primarily intended for the undergraduate students of chemical pharmaceutical petrochemical engineering as well as biotechnology and industrial biotechnology It will also be useful to plant engineers and design professionals KEY FEATURES 1 Explains the theoretical concepts with full derivation of equations 2 Illustrates the application of theory through worked out numerical examples 3 Provides exercise problems with answers at the end of each chapter for practice

Mass-transfer Operations Robert Ewald Treybal,1980

Mass Transfer in Engineering Practice Aksel Lydersen,1983

Mass Transfer Operations Alapati Suryanarayana,2002 In A Simple And Systematic Manner This Book Presents An Exhaustive Account Of Various Mass Transfer Operations Involved In Chemical Engineering Emphasising The Basic Concepts And Techniques The Book Discusses In Detail Material And Energy Balances Distillation Absorption And Stripping And Extraction The Book Also Explains The Relevant Aspects Of Equipment Design Recent Developments Like Permeation Ion Exchange And Froth Flootation Have Also Been Discussed A Large Number Of Digital Computer Programs Are Included To Illustrate Computer Aided Techniques Several Solved Examples And Practice Problems Are Presented In Each Chapter To Illustrate The Theory With All These Features This Is An Ideal Text For Undergraduate Chemical Engineering Students Practising Engineers And Students Of Pharmacy And Metallurgy Would Also Find The Book A Useful Reference Source

Mass Transfer - Principles and Operations Mr. Ajeet Singh,2018-05-14 EduGorilla has its own publishing wing producing exam prep books trade books etc

PRINCIPLES OF MASS TRANSFER KAL RENGANATHAN

SHARMA,2007-01-21 This book addresses the specific needs of undergraduate chemical engineering students for the two courses in Mass Transfer I and Mass Transfer II It is also suitable for a course in Downstream Processing for biotechnology students This self contained textbook is designed to provide single volume coverage of the full spectrum of techniques for chemical separations The operations covered include vapour distillation fluid adsorption gas absorption liquid extraction solid leaching gas humidification solid drying foam separation solution crystallization metal alloying reverse osmosis molecular sieves electrodialysis and ion exchange The text also discusses emerging applications such as drug delivery gel electrophoresis bleaching membrane separations polymer devolatilization solution crystallization and gas chromatography Equipment selection is discussed for different operations A table of industrial applications for each and every mass transfer unit operation is provided The worked examples illustrate problems from chemical process and biotechnology industries

Review questions encourage critical thinking and end of chapter problems emphasize grasping of the fundamentals as well as illustrate applications of theory to a wide variety of scenarios

KEY FEATURES Includes several case studies ranging from manufacture of vitamin C prilling tower to granulate urea to vanaspati discolouration and wilting of the lettuce Introduces generalized Fick's law of diffusion Discusses hollow fibre mass exchangers Introduces new concepts such as cosolvent factor Z step procedure for multistage cross current extraction

Mass Transfer Operations Laboratory Manual Kalyan Kumar Meda, 2019-06-13 Aim Objective To verify Rayleigh equation by conducting simple distillation on methanol water system To compare experimental F W with that calculated from Rayleigh's equation and with modified Rayleigh's equation Apparatus Simple distillation experimental set up 250 ml beakers 2 numbers 50 ml beaker specific gravity bottle 25 ml thermometer Equations Rayleigh equation Check in R E Treybal Modified Rayleigh equation Check in R E Treybal

Mass Transfer and Separation Processes Diran Basmadjian, 2007-04-25 Mass transfer along with separation processes is an area that is often quite challenging to master as most volumes currently available complicate the learning by teaching mass transfer linked with heat transfer rather than focusing on more relevant techniques With this thoroughly updated second edition Mass Transfer and Separation Processes

Mass Transfer A. P. SINHA, PARAMESWAR DE, 2012-05-09 This book introduces the fundamental principles of the mass transfer phenomenon and its diverse applications in process industry It covers the full spectrum of techniques for chemical separations and extraction Beginning with molecular diffusion in gases liquids and solids within a single phase the mechanism of inter phase mass transfer is explained with the help of several theories The separation operations are explained comprehensively in two distinct ways stage wise contact and continuous differential contact The primary design requirements of gas liquid equipment are discussed The book provides a detailed discussion on all individual gas liquid liquid liquid solid gas and solid liquid separation processes The students are also exposed to the underlying principles of the membrane based separation processes The book is replete with real applications of separation processes and equipment Problems are worked out in each chapter Besides problems with answers short questions multiple choice questions with answers are given at the end of each chapter The text is intended for a course on mass transfer transport and separation processes prescribed for the undergraduate and postgraduate students of chemical engineering

Unveiling the Magic of Words: A Overview of "**Mass Transfer Lab Manual Viva Voce**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Mass Transfer Lab Manual Viva Voce**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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