

Specimen Calculation:

For Copper	For Aluminum
$A_{\text{copper}} = \frac{\pi}{4} d^2$	$A = 0.00049 \text{ m}^2$
$= \frac{\pi}{4} (-0.25)^2$	$\Delta T / \Delta x = -192 \text{ K/m}$
$A = 0.00049 \text{ m}^2$	$Q = 20 \text{ Watt}$
$\Delta T / \Delta x = -103 \text{ K/m}$	
$Q = 20 \text{ Watt}$	$k = -\frac{Q}{A} \times \frac{\Delta x}{\Delta T}$
$k = -\frac{Q}{A} \times \frac{\Delta x}{\Delta T}$	$= \frac{-20}{0.00049} \times \frac{1}{-192}$
$= \frac{-20}{0.00049} \times \frac{1}{-103}$	$k = 212 \text{ W/mK}$
$[k_{\text{cu}} = 396 \text{ W/mK}]$	

Discussion:

1) We see that, thermal conductivity is directly proportional to temp gradient i.e. $Q$ .
2) Also 'k' is inversely proportional specimen Area. $k \propto 1/A$
3) It remain constant at diff temp. or 'Q' because it is a specific property of material.

Reg. No.	Lab Performance (10)	Lab Report (10)	Viva Voce (10)	Signature
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# Mass Transfer Lab Manual Viva Voce

**J Rink**



## **Mass Transfer Lab Manual Viva Voce:**

**Comprehensive Lab Manual Science VII** Dr. N. K. Sharma, 2011-11      *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 npn or pnp transistor and to find out the values of current and voltage gains Activitie 1 To study effect of intensity of light by varying distance of the source on a L D R 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 npn and pnp 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 I C 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 liquid 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

*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-Physics-TB-12\_E-R** Dr R K Gupta, Lab Manual Physics TB

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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

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**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 Arny, 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 **Principles and Modern Applications of Mass Transfer Operations** Jaime Benitez,2002-05-28 A complete contemporary account of mass transfer operations at the undergraduate level While Mass Transfer Operations is a required course in every undergraduate chemical engineering program in the world there does not exist a comprehensive text on the subject that is specifically tailored to the undergraduate reader Principles and Modern Applications of Mass Transfer Operations responds to this need providing a thorough accessible text that presents the latest advances in the science as well as sets of targeted questions that challenge students knowledge The focus throughout Jaime Benitez s peerless study is on making the student consider computation from the start of a mass transfer dilemma Twenty five to thirty problems at the end of each chapter ensure that readers will remain actively engaged with the material Principles incorporates examples of computational software such as Mathcad 2001 Matlab r Mathematica and Aspen Graphics and also includes an ftp site that offers problems for each of these software applications as well as a Solutions Manual Chapters encompass Fundamentals of mass transfer Convective mass transfer Interphase mass transfer Equipment for gas liquid mass transfer operations Absorption and stripping Distillation Liquid liquid extraction Ideal for a first course in mass transfer operations this text will also prove valuable to chemical and environmental engineers researchers and university faculty [Principles and Applications of Mass Transfer](#) Jaime Benitez,2022-10-19 Principles and Applications of Mass Transfer Core textbook teaching mass transfer fundamentals and applications for the design of separation processes in chemical biochemical and environmental engineering Principles and Applications of Mass Transfer teaches the subject of mass transfer fundamentals and their applications to the design of separation processes with enough depth of coverage to guarantee that students using the book will at the end of the course be able to specify preliminary designs of the most common separation process equipment Reflecting the growth of biochemical applications in the field of chemical engineering the fourth edition expands biochemical coverage including transient diffusion environmental applications electrophoresis and bioseparations Also new to the fourth edition is the integration of Python programs which complement the Mathcad programs of the previous edition On the accompanying instructor s website the online appendices contain a downloadable library of Python and Mathcad programs for the example problems in each chapter A complete solution manual for all end of chapter problems both in Mathcad and Python is also provided Some of the topics covered in Principles and Applications of

Mass Transfer include Molecular mass transfer covering concentrations velocities and fluxes the Maxwell Stefan relations and Fick's first law for binary mixtures The diffusion coefficient covering diffusion coefficients for binary ideal gas systems dilute liquids and concentrated liquids Convective mass transfer covering mass transfer coefficients dimensional analysis boundary layer theory and mass and heat transfer analogies Interphase mass transfer covering diffusion between phases material balances and equilibrium stage operations Gas dispersed gas liquid operations covering sparged vessels tray towers diameter and gas pressure drop and weeping and entrainment Principles and Applications of Mass Transfer is an essential textbook for undergraduate chemical biochemical mechanical and environmental engineering students taking a core course on Separation Processes or Mass Transfer Operations along with mechanical engineers and mechanical engineering students starting to get involved in combined heat and mass transfer applications

**Mass-transfer Operations** Robert Ewald Treybal,1980

WORKED EXAMPLES IN MASS TRANSFER B. N. Nnolim,2010 Book presents mass transfer fundamentals in easily understandable form using worked examples to illustrate basic concepts and calculations

*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** 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

**Multicomponent Mass Transfer** Ross Taylor,R. Krishna,1993-12-16 Addresses the use of rigorous multicomponent mass transfer models for the simulation and design of process equipment Deals with the basic equations of diffusion in multicomponent systems Describes various models and estimations of rates of mass and energy transfer Covers applications

of multicomponent mass transfer models to process design Includes appendices providing necessary mathematical background Contains a large number of numerical examples worked out in detail



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