

Experiment 10: INVERSE SQUARE LAW FOR HEAT

Objective:

To show that the intensity of radiation on a surface is inversely proportional to the square of the distance of the surface from the radiation source

Procedure:

1. Follow the basic instruction as written in this section.
2. Connect one of the thermocouple of the target plates, BLACK to the panel and place the plate on the bench, to record ambient temperature.
3. Position the radiometer on the test track at 800mm from the heat source.
4. Set heater temperature to 150°C by using heater controller. Monitor TH reading on the indicator.
5. When TH value has stabilized, record BLACK, TH, the distance, x and the radiometer reading, R .
6. Next, move the radiometer position to 700mm from the heated surface and monitor the reading on the display panel. When the value has stabilized, record BLACK, TH, the distance, x and the radiometer reading, R .
7. Repeat the above procedure by reducing the distance by 100mm until the radiometer is 300mm from the heated surface.

Observations:

Distance, x (mm)	Radiometer Reading, R (W/m ²)	BLACK (°C)	TH (°C)
800			
700			
600			
500			
450			
300			

Assignment:

Plot the Log of the corrected radiometer reading R versus Log x graph and calculate the slope. Compare the result with the theoretical value.

Heat And Mass Transfer Lab Manual For

D. Yogi Goswami



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Engineering Practical Book - Vol-1 Farrukh Hafeez, Mohd Arif, 2016-04-24 The importance of practical training in engineering education as emphasized by the AICTE has motivated the authors to compile the work of various engineering laboratories into a systematic Practical laboratory book The manual is written in a simple language and lucid style It is hoped that students will understand the manual without any difficulty and perform the experiments **FUNDAMENTALS OF**

HEAT AND MASS TRANSFER B. K. VENKANNA, 2010-01-01 This comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology *Heat and Mass Transfer* Anthony Mills, 2018-05-04 This complete reference book covers topics in heat and mass transfer containing extensive information in the form of interesting and realistic examples problems charts tables illustrations and more Heat and Mass Transfer emphasizes practical processes and provides the resources necessary for performing accurate and efficient calculations This excellent reference comes with a complete set of fully integrated software available for download at crcpress.com consisting of 21 computer programs that facilitate calculations using procedures developed in the text Easy to follow instructions for software implementation make this a valuable tool for effective problem solving **Current Practices in Modelling the Management of Stormwater**

Impacts William James, 1994-02-07 This impressive publication presents the proceedings of the 1993 Toronto Stormwater and Water Quality Modelling meeting The number of papers in the book has been substantially increased and for the first time the contributions have been peer reviewed for novelty accuracy readability and relevance Chapters are arranged in five sections ecosystem impacts water quality modelling new methods and modelling data management and current practice The appendices are valuable research aids with a detailed index a substantial glossary encompassing the entire discipline lists of acronyms models and abbreviations and a complete list of authors cited in the book The editor also provides a classification of the 485 papers of the 11 year series of conferences held at the University of Kentucky at Louisville **Catalog of**

Technical Reports United States. Dept. of Commerce. Office of Technical Services, **Scientific and Technical Aerospace Reports**, 1995 Energy Research Abstracts, 1994 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977 **Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences** National Science Foundation (U.S.), 1966 **Fundamentals of Heat and Mass Transfer** T. L. Bergman, 2011-04-12 Fundamentals of Heat and Mass Transfer 7th Edition is the gold standard of heat transfer pedagogy for

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Bibliography of Scientific and Industrial Reports ,1965-07 *U.S. Government Research & Development Reports* ,1965 **Buoyant Jet Flows and Mixing in Stratified Lakes, Reservoirs Or Ponds** Ruochuan Gu,1991

Thermal-Hydraulics of Water Cooled Nuclear Reactors Francesco D'Auria,2017-05-18 Thermal Hydraulics of Water Cooled Nuclear Reactors reviews flow and heat transfer phenomena in nuclear systems and examines the critical contribution of this analysis to nuclear technology development With a strong focus on system thermal hydraulics SYS TH the book provides a detailed yet approachable presentation of current approaches to reactor thermal hydraulic analysis also considering the importance of this discipline for the design and operation of safe and efficient water cooled and moderated reactors Part One presents the background to nuclear thermal hydraulics starting with a historical perspective defining key terms and considering thermal hydraulics requirements in nuclear technology Part Two addresses the principles of thermodynamics and relevant target phenomena in nuclear systems Next the book focuses on nuclear thermal hydraulics modeling covering the key areas of heat transfer and pressure drops then moving on to an introduction to SYS TH and computational fluid dynamics codes The final part of the book reviews the application of thermal hydraulics in nuclear technology with chapters on V V and uncertainty in SYS TH codes the BEPU approach and applications to new reactor design plant lifetime extension and accident analysis This book is a valuable resource for academics graduate students and professionals studying the thermal hydraulic analysis of nuclear power plants and using SYS TH to demonstrate their safety and acceptability Contains a systematic and comprehensive review of current approaches to the thermal hydraulic analysis of water cooled and moderated nuclear reactors Clearly presents the relationship between system level top down analysis and component level phenomenology bottom up analysis Provides a strong focus on nuclear system thermal hydraulic SYS TH codes Presents detailed coverage of the applications of thermal hydraulics to demonstrate the safety and acceptability of nuclear power plants

Handbook of Heat and Mass Transfer Nicholas P. Cheremisinoff,1986 **Principles of Solar Engineering** D. Yogi Goswami,2022-09-06 Principles of Solar Engineering Fourth Edition addresses the need for solar resource assessment and highlights improvements and advancements involving photovoltaics and solar thermal technologies grid power and energy storage With updates made to every chapter this edition discusses new technologies in photovoltaics

such as organic dye sensitized and perovskite solar cells and the design of solar systems and power plants It also features battery energy storage for distributed and bulk storage and electrical integration with the main solar systems In addition the book includes the latest advancements in concentrating solar power plants such as supercritical CO₂ cycle Readers will benefit from discussions of the economics of the solar energy systems which apply to all the systems covered in the subsequent chapters Nine Appendices are available for download by all readers Features Discusses new forecasting models in solar radiation that are important to the economics and bankability of large solar energy systems such as power plants Includes expanded coverage of high temperature thermal storage for Concentrating Solar Thermal Power CSP including thermal energy transport using heat exchangers Features a new chapter on solar seawater desalination Includes new and additional end of chapter example problems and exercises A Solutions Manual will be available for instructors The book is intended for senior undergraduate and graduate engineering students taking Energy Engineering and Solar Energy courses

Solar Energy Conversation Mr. Rohit Manglik,2024-07-23 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Title Announcement Bulletin ,1953 *Heat and Mass Transfer* R. Rudramoorthy,K. Mayilsamy,2010 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960

Reviewing **Heat And Mass Transfer Lab Manual For**: Unlocking the Spellbinding Force of Linguistics

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