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Designing and Writing the Thermodynamics Lab Manual Carol A. Reed, 1988 *Laboratory Manual* University of Windsor. Dept. of Physics, 196? *Thermodynamics Laboratory Manual* Hans H. VanderMeyden, 1974 **Experiments in Heat Transfer and Thermodynamics** Robert Alan Granger, 1994-06-24 Engineering curricula are notoriously demanding One way to make the material easier to grasp and more fun to learn is to emphasize the experimental or hands on aspects of engineering problems This unique book is about learning through active participation in laboratory experiments and it specifically aims to dispel some of the mystery so many students associate with the study of thermodynamics and heat transfer In it the author presents a collection of experiments in heat transfer and thermodynamics contributed by leading engineering educators The experiments have been tested evaluated and proved successful for classroom use Each experiment follows the same step by step format which includes the objective of the experiment apparatus needed procedure suggested headings and references The experiments use apparatus that is easily built or attainable Among the topics covered are heat conduction convection boiling mixing diffusion radiation heat pipes and exchangers and thermodynamics The book will be especially useful as a companion to standard heat transfer and thermodynamics texts Catalog of Course of Instruction at the United States Naval Academy United States Naval Academy, 1953 **Notes on Thermodynamics** Henry Wilson Spangler, 1906 **Calculus Based University Physics** Rudiger Michalak, 2011-12-16 *Course of Instruction at the United States Naval Academy* United States Naval Academy, 1953 **An Introduction to General Thermodynamics. An Elementary Treatise on the Fundamental Principles and Their Simpler Applications** Henry Augustus Perkins, 1912 Applied Thermodynamics for Engineers William Duane Ennis, 1913 **Thermodynamics of the Steam-engine and Other Heat-engines** Cecil Hobart Peabody, 1905 This work is designed to give instruction to students in technical schools in the methods and results of the application of thermodynamics to engineering While it has been considered desirable to follow commonly accepted methods some parts differ from other text books either in substance or in manner of presentation and may require a few words of explanation The general theory or formal presentation of thermodynamics is that employed by the majority of writers and was prepared with the view of presenting clearly the difficulties inherent in the subject and of giving familiarity with the processes employed In the discussion of the properties of gases and vapors the original experimental data on which the working equations whether logical or empirical must be based are given quite fully to afford an idea of the degree of accuracy attainable in calculations made with their aid Rowland s determination of the mechanical equivalent of heat has been adopted and with it his determination of the specific heat of water at low temperatures The author s Tables of the Properties of Saturated Steam and Other Vapors were calculated to accompany this work and may be considered to be an integral part of it The chapters on the flow of gases and vapors and on the injector are believed to present some novel features especially in the comparisons with experiments The feature in which

this book differs most from similar works is in the treatment of the steam engine It has been deemed advisable to avoid all approximate theories based on the assumption of adiabatic changes of steam in an engine cylinder and instead to make a systematic study of steam engine tests with the view of finding what is actually known on the subject and how future investigations and improvements may be made For this purpose a large number of tests have been collected arranged and compared Special attention is given to the investigations of the action of steam in the cylinder of an engine considerable space being given to Hirn s researches and to experiments that provide the basis for them Directions are given for testing engines and for designing simple and compound engines Chapters have been added on compressed air and refrigerating machines to provide for the study of these important subjects in connection with the theory of thermodynamics

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