

# Engineering Thermodynamics By P K Nag

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Energy, the Subtle Concept  
Non-Equilibrium Thermodynamics  
Gaither's Dictionary of Scientific Quotations  
Science Abstracts  
The Nature of Motive Force  
Engineering Thermodynamics  
A history of the theory of elasticity and of the strength of materials, ed. and completed by K. Pearson. 2 vols. [in 3 pt.].  
A History of the Theory of Elasticity and of the Strength of Materials: pts. 1-2. Saint-Venant to Lord Kelvin  
Van Nostrand's Engineering Magazine  
Van Nostrand's Eclectic Engineering Magazine  
American Chemical Journal  
American Chemical Journal  
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pierre duhem 1861 1916 held the chair of theoretical physics at bordeaux from 1894 to his death he established a reputation in both the history and philosophy of science as well as in science itself physics and physical chemistry much of his work in the first two areas has been translated into english but little of his technical scientific work the

present volume contains early work of duhem s illustrating his interest in the rigorous development of physical theory for which he is famous it opens with what was the first critical discussion of gibbs groundbreaking on the equilibrium of heterogeneous substances 1876 8 where duhem addressed the problem that as he put it mathematicians regret that the principles of thermodynamics should have been developed in general with so little precision that the same proposition can be regarded by some as a consequence and by others as a negation of these principles the other papers forming a three part series pursue this project of putting the foundations of thermodynamics on a clearer and more secure basis this book will be of interest to scholars in history and philosophy of science especially those interested in the development of physical chemistry and the work of pierre duhem

this book explains the idea of energy by tracing the story of its discovery from galileo through to einstein it explains the physics using the minimum of mathematics presenting both a gripping historical narrative and a fascinating introduction to an elusive physical concept

classic monograph treats irreversible processes and phenomena of thermodynamics non equilibrium thermodynamics covers statistical foundations and applications with chapters on fluctuation theory theory of stochastic processes kinetic theory of gases more

scientists and other keen observers of the natural world sometimes make or write a statement pertaining to scientific activity that is destined to live on beyond the brief period of time for which it was intended this book serves as a collection of these statements from great philosophers and thought influencers of science past and present it allows the reader quickly to find relevant quotations or citations organized thematically and indexed alphabetically by author this work makes readily available an unprecedented collection of approximately 18 000 quotations related to a broad range of scientific topics

in this monograph prof pramanick explicates the law of motive force a fundamental law of nature that can be observed and appreciated as an addition to the existing laws of thermodynamics this unmistakable and remarkable tendency of nature is equally applicable to all other branches of studies he first conceptualized the law of motive force in 1989 when he was an undergraduate student here he reports various applications of the law in the area of thermodynamics heat transfer fluid mechanics and solid mechanics and shows how it is possible to solve analytically century old unsolved problems through its application this book offers a comprehensive account of the law and its relation to other laws and principles such as the generalized conservation principle variational formulation fermat s principle bejan s constructal law entropy generation minimization bejan s method of intersecting asymptotes and equipartition principle furthermore the author addresses some interrelated

fundamental problems of contemporary interest especially to thermodynamicists by combining analytical methods physical reasoning and the proposed law of motive force this foundational work is a valuable reading for both students and researchers in exact as well as non exact sciences and at the same time a pleasant learning experience for the novice

this revised edition of engineering thermodynamics is designed as a textbook for undergraduate students of mechanical engineering it provides an in depth coverage of the fundamental principles of thermodynamics while providing the mathematical representation it lays emphasis on the physical aspects of the subject

survey of progress in chemistry volume 7 provides information pertinent to the essential developments in chemistry this book discusses the several topics related to chemistry including thermodynamics electron transfer photochemical reaction pathways and cosmochemistry organized into five chapters this volume begins with an overview of the physical and chemical properties of the moon this text then examines the art of applying chemical principles to studies of the nature and origins of extraterrestrial objects other chapters consider the photochemistry of coordination compounds this book discusses as well the study of the kinetics and mechanisms of inorganic compounds particularly coordination complexes which comprises an essential part of the total effort in inorganic chemistry the final chapter deals with some general features of the second law of thermodynamics which is well known to be expressible by a number of various statements this book is a valuable resource for chemists cosmochemists and chemistry teachers

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