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Ideal for one- or two-semester courses that assume elementary knowledge of calculus, This text presents the fundamental concepts of thermodynamics and applies these to problems dealing with properties of materials, phase transformations, chemical reactions, solutions and surfaces. The author utilizes principles of statistical mechanics to illustrate key concepts from a microscopic perspective, as well as develop equations of kinetic theory. The book provides end-of-chapter question and problem sets, some using MathcadTM and MathematicaTM; a useful glossary containing important symbols, definitions, and units; and appendices covering multivariable calculus and valuable numerical methods.

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Principles of Desalination focuses on the principles of the developing technology of large-scale desalting. This book presents the principal desalting methods and explores the process of hyperfiltration or reverse osmosis. Comprised of 11 chapters, this book starts with an overview of the water use and the problem of a potential water shortage. This text then discusses the fundamentals of the major desalting methods in use and explores the basic scientific and design principles that underlie the methods. Other chapters consider the method of vapor reheat distillation, which incorporates the liquid-liquid heat exchange principle. This book discusses as well the various aspects of ion exchange and explores the mechanisms in dual-purpose plants producing both distilled water and steam-turbine raised power. The final chapter considers the cost of conventional water supplies. This book is a valuable resource for technologists and scientists. Students in the graduate courses of engineering will also find this book useful.

This revolutionary and best-selling resource contains more than 200 pages of additional information and expanded discussions on zeolites, bitumen, conducting polymers, polymerization reactors, dendrites, self-assembling nanomaterials, atomic force microscopy, and polymer processing. This exceptional text offers extensive listings of laboratory exercises and demonstrations, web resources, and new applications for in-depth analysis of synthetic, natural, organometallic, and inorganic polymers. Special sections discuss human genome and protonics, recycling codes and solid waste, optical fibers,

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self-assembly, combinatorial chemistry, and smart and conductive materials.

This volume looks afresh at the life and works of Lord Kelvin including his standing and relationships with Charles Darwin, T. S. Huxley and the X-club, thereby throwing new light on the nineteenth-century conflict between the British energy and biology specialists. It focuses on two principal issues. Firstly, there is the contribution made by Kelvin to the formulation of the Laws of Thermodynamics, both personal and in the content of the scientific communications exchanged with other workers, such as Joule and Clausius. Secondly, there is Kelvin's impact on the wider field of science such as thermoelectricity and geology (determination of the age of the earth). Of late a number of studies and initiatives, including the Centenary celebrations of Kelvin's death and exhibits such as that of the 'Revolutionary Scientist' in the Hunterian Museum, Glasgow, have been undertaken aiding the redefinition of Kelvin's greatness and achievements. The book also raises awareness to 'improve our approach to the teaching of elementary thermodynamics by attempting to empathise with Kelvin's perspective'. It is completed by a full biography, overviews of various monuments to his memory, and short 'Stories in Pictures' on the Atlantic cable, Maxwell's Demon, the universities associated with the development of thermodynamics and the Royal Society of Edinburgh. Scientists and engineers with an interest in thermodynamics and anyone interested in the work of Lord Kelvin will find benefit in Kelvin, Thermodynamics and the Natural World.

Order and Disorder is a non-mathematical introduction to the most important ideas in science for university students not majoring in a scientific area. The objective is to prepare non-science students for making both life and political decisions involving science and helping them to understand the advances in sciences as covered and reported in the mass media. The book is highly comprehensive in physics and chemistry, and provides the essential background to discuss and gain a better appreciation of selected topics in biological and neurological sciences, as well as astronomy and geology. The topics are integrated with the recurring theme of order and disorder, the organization achieved in the face of the never-ending drive towards disorganization. The book also lends an insight into some considerations of the philosophy of science, as well as the applications of science to health and a variety of other professions. The reading experience is enhanced by the provision of illuminating examples, supplementary reading and a summary of each chapter. New terminologies, that appear here for the first time, are set off in bold italics and annotated in the glossary. Where basic principles are introduced and explained, these are highlighted prominently in bold

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for ease of reference. Stimulating discussion questions are presented at the end of each chapter, giving readers some food for thought.

This is the 22nd Volume in the series Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

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