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The aim of this book is to provide an overview on the importance of stoichiometry in the materials science field. It presents a collection of selected research articles and reviews providing up-to-date information related to stoichiometry at various levels. Being materials science an interdisciplinary area, the book has been divided in multiple sections, each for a specific field of applications. The first two sections introduce the role of stoichiometry in nanotechnology and defect chemistry, providing examples of state-of-the-art technologies. Section three and four are focused on intermetallic compounds and metal oxides. Section five describes the importance of stoichiometry in electrochemical applications. In section six new strategies for solid phase synthesis are reported, while a cross sectional approach to the influence of stoichiometry in energy production is the topic of the last section. Though specifically addressed to readers with a background in physical science, I believe this book will be of interest to researchers working in materials science, engineering and technology.

This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on ‘Nanomaterials’ is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on ‘Nanomaterials’ describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

A basic text meeting requirements of core courses in this area. Apart from covering all necessary topics, the book gives procedures, standards and specifications for materials and their testing, as per conditions and practices prevalent in the country. Trade names, compositions, properties and applications of engineering materials commonly used in industry have

been given in the form of tables. A large number of schematic diagrams, engineering curves, tables and microstructures have been included to make the approach of the subject more illustrative, informative and demonstrative.

Materials Science of Membranes for Gas and Vapor Separation is a one-stop reference for the latest advances in membrane-based separation and technology. Put together by an international team of contributors and academia, the book focuses on the advances in both theoretical and experimental materials science and engineering, as well as progress in membrane technology. Special attention is given to comparing polymer and inorganic/organic separation and other emerging applications such as sensors. This book aims to give a balanced treatment of the subject area, allowing the reader an excellent overall perspective of new theoretical results that can be applied to advanced materials, as well as the separation of polymers. The contributions will provide a compact source of relevant and timely information and will be of interest to government, industrial and academic polymer chemists, chemical engineers and materials scientists, as well as an ideal introduction to students.

This book should be a valuable reference for experienced metallurgists, mechanical engineers, and students seeking a practical technical introduction to metallurgy. Contents are based on lectures designed for undergraduate students in mechanical engineering, and the book is an excellent introduction to the fundamentals of applied metallurgy. The book also contains numerous graphs, tables, and explanations that can prove useful even for experienced metallurgists and researchers. Contents cover both the fundamental and applied aspects of metallurgy. The first half of the book covers the basic principles of metallurgy, the behavior of crystalline materials, and the underlying materials concepts related to the mechanical properties of metals. The second half focuses on applied physical metallurgy. This includes coverage of the metallurgy of common alloys systems such as carbon steels, alloyed steels, cast iron, and nonferrous alloys.Contents include: Introduction to Physical Metallurgy The Atomic Structure of Materials Fundamentals of Crystal Structure Basic Rules of Crystallization Imperfections in Crystalline Solids Mechanical Properties of Single-Phase Metallic Materials Metallic Alloys Equilibrium Crystallization of Iron-Carbon Alloys Non-Equilibrium Crystallization of Iron-Carbon Alloys Plain Carbon Steels Alloyed Steels Cast Iron Nonferrous Metals and Alloys.

This unique book is published at the occasion of the 80th birthday of B E Paton, Director of the E O Paton Electric Welding Institute in Kiev, one of the outstanding scientists working in the area of welding, NDT and materials science. The book (almost 700 pages) contains detailed studies written by leading Ukrainian, Russian and foreign scientists, dealing with the most important results of materials science, welding, metallurgy and engineering, with predictions for the development of these sciences in the 21st century. The book contains a large number of new experimental results and will be of considerable interest to everybody working in materials science, welding, NDT, metallurgy, etc. WELDING PROCESSES AND TECHNOLOGIES: Problems of welding high-strength low alloy steels; Weld ability of modern high-strength steels; The prospects and problems of materials science in the development of materials and welding technologies in construction of

unique ice-resistant platforms; Solid-phase welding of high-strength pearlitic, austenitic and martensitic steels; Computer modelling of welding processes METALLURGICAL PROCESSES AND TECHNOLOGIES: Electro slag technology in the 21st century; Processes of ladle treatment of metals and alloys; The effect of external influences on the crystal structure of castings; The structure of eutectics and development of new eutectics alloys; Prospects of development of materials produced by transformation from the liquid to solid state; Science of Sintering-a multidisciplinary reality; Sintering of powder materials in electrothermal, plasma and laser heating; The current state and prospects of thermal and thermomechanical strengthening of commercial rolled metalstock; The phenomenological theory of sorption of diatomic gases bimetal from electric at plasma; Hydrogen - a unique element; Development and improvement of structural materials for new generation nuclear power plant with increased reliability and service life; Designer and some functional materials. Present and future; Al alloys for aerospace technology FUNCTIONAL AND COMPOSITE MATERIALS: Development of high-purity materials; Inorganic materials deposited from the vapour phase in vacuum; Development of diamond synthesis technology; Materials with a cluster structure - new properties and possibilities; High-temperature superconducting material's with high critical parameters; Smart materials at the Institute of Metals Physics of the Academic of Sciences of the Ukraine; Composite sintered antifriction and friction materials for friction sections; Thermoelectric materials with programmable in homogeneity; The problem of the micro-heterogeneous structure of disordered metallic systems; Porous materials: scientific fundamentals of the formation of properties and efficient application; The structural integrity of the new 'advanced materials'; Magnetic materials: properties and application; Prospects of development of tools steels; Investigation and development of non-oxide ceramic materials in the Ukraine; Brazing non-metallic refractory materials, advances and prospects; PHYSICO-CHEMICAL MECHANICS AND STRENGTH OF MATERIALS; Physical-chemical mechanics of structural materials: achievements and prospects; Strength of constructional materials; Corrosion of stainless-steel and welded joints; Development of holographic interferometry for examining the stress-strain state and inspected thequality of welded joints; New methods of micromechanical tests of materials by local loading with a rigid indentor

International Russian Conference on Materials Science and Metallurgical Technology (RusMetalCon 2018) Selected, peer reviewed papers from the International Russian Conference on Materials Science and Metallurgical Technology (RusMetalCon 2018), October 1-4, 2018, Chelyabinsk, Russian Federation

Still passive and for the most part uncontrollable, current systems intended to ensure the reliability and durability of engineering structures are still in their developmental infancy. They cannot make corrections or recondition materials, and most material and structural failures cannot be predicted. Accidents-and catastrophes-result. Physics of Strength and Fracture Control: Adaptation of Engineering Materials and Structures introduces a new physical concept in the science of the resistance of materials to external effects, a concept that opens completely new avenues for improving the strength and safety of engineered objects. Based on a thermodynamic equation of state of solids derived by the author, the approach provides a general methodology for treating all the physical and mechanical properties of materials, regardless of

their nature and physical state. The author shows that this approach enables the control of the stressed-deformed state both to prevent failures and fractures and to promote them for easier shaping of materials. He uses this methodology to present and discuss non-traditional but practical ways of solving real-world problems. Of enormous theoretical and practical significance, this groundbreaking work ushers in a new stage in the science of material strength. It opens the door to systematic ways to design materials, control their operating properties, and predict their behavior under specific operating conditions.

Si containing polymers have been instrumental in the development of membrane gas separation practices since the early 1970s. Their function is to provide a selective barrier for different molecular species, where selection takes place either on the basis of size or on the basis of physical interactions or both. Combines membrane science, organosilicon chemistry, polymer science, materials science, and physical chemistry Only book to consider polymerization chemistry and synthesis of Si-containing polymers (both glassy and rubbery), and their role as membrane materials Membrane operations present environmental benefits such as reduced waste, and recovered/recycled valuable raw materials that are currently lost to fuel or to flares