Progress In Materials Science

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Materials science includes those parts of chemistry and physics that deal with the properties of materials. It encompasses four classes of materials, the study of each of which may be considered a separate field - metals, ceramics, polymers and composites. This work explores research in the field.
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This book presents recent advances made in materials science and engineering within Russian academia, particularly groups working in the Ural Federal University District. Topics explored in this volume include structure formation analysis of complicated alloys, non-ferrous metals metallurgy, composite composed materials science, and high-pressure treatment of metals and alloys. The finding discussed in this volume are to critical to multiple industries including manufacturing, structural materials, oil and gas, coatings, and metal fabrication.
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Materials science includes those parts of chemistry and physics that deal with the properties of materials. It encompasses four classes of materials, the study of each of which may be considered a separate field: metals; ceramics; polymers and composites. Materials science is often referred to as materials science and engineering because it has many applications. Industrial applications of materials science include processing

techniques (casting, rolling, welding, ion implantation, crystal growth, thin-film deposition, sintering, glassblowing, etc.), analytical techniques (electron microscopy, x-ray diffraction, calorimetry, nuclear microscopy (HEFIB) etc.), materials design, and cost/benefit tradeoffs in industrial production of materials. This new volume gathers important research from around the globe in this dynamic field.

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With chapters by the editors and other experts in the field of polymer science, this book covers a broad selection of important research advances in the field, including updates on enzymatic destruction and photoelectric characteristics, studies on the changes in the polymer molecular mass during hydrolysis and a new type of bioadditive for motor f

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The characterization of materials and phenomena has historically been the principal limitation to the development in each area of science. Once what we are observing is well defined, a theoretical analysis rapidly follows. Modern theories of chemical bonding did not evolve until the methods of analytical chemistry had progressed to a point where the bulk stoichiometry of chemical compounds was firmly established. The great progress made during this century in understanding chemistry has followed directly from the development of an analytical chemistry based on the Dalton assumption of multiple proportions. It has only become apparent in recent years that the extension of our understanding of materials hinges on their non-stoichiometric nature. The world of non-Daltonian chemistry is very poorly understood at present because of our lack of ability to precisely characterize it. The emergence of materials science has only just occurred with our recognition of effects, which have been thought previously to be minor variations from ideality, as the principal phenomena controlling properties. The next step in the historical evolution of materials science must be the development of tools to characterize the often subtle phenomena which determine properties of materials. The various discussions of instrumental techniques presented in this book are excellent summaries for the state-of-the-art of materials characterization at this rather critical stage of materials science. The application of the tools described here, and those yet to be developed, holds the key to the development of this infant into a mature science.

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