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The book is a greatly extended update of the 1992 book Principles of Metal Refining. It includes, in particular, the subject of metal recycling. It includes metalloids like silicon, ferrous and non-ferrous metal refining, and gives a comprehensive overview of metal production today, its

applications, purification, and recycling.

This handbook gathers, reviews and concisely presents the core principles and varied technology involved in processing ferroalloys. Background content in thermodynamics, kinetics, heat and mass transfer is accompanied by an overview of electrical furnaces theory and practice as well as sustainability issues. The work includes detailed coverage of the major technologies of ferrosilicon, ferronickel, ferromolybdenum, ferrotungsten, ferrovanadium, ferromanganese and lesser known minor ferroalloys. Distilling the results of many years' experience in ferroalloys, Michael

Gasik has assembled contributions from the worlds' foremost experts. The work is therefore a unique source for scientists, engineers and university students, exploring in depth an area which is one of the most versatile and increasingly used fields within modern metallurgy. All-in-one source for the major ferroalloys and their metallurgical processing technologies, cutting research time otherwise spent digging through old handbooks or review articles. In-depth discussion of the C, Si, Al-reduction, groups II-VIII of the periodic table, supporting analysis of metallurgical processing. Contemporary coverage includes environment and energy saving issues.

This volume covers various aspects of the fundamentals, synthesis, analysis, design, monitoring, and control of metals,

materials, and metallurgical processes and phenomena. Topics represented include but are not limited to: • Experimental, analytical, physical, and computer modeling of physical chemistry and thermodynamics • Modeling of the transport phenomena in materials processing and metallurgical processes involving iron, steel, nonferrous metals, and composites • Second-phase particles in metals and processes and the fundamentals (experimental studies or theoretical studies) on the nucleation, growth, motion, and removal of these particles from the molten metal or reactors • Physical chemistry, thermodynamics, and kinetics for the production and refining of rare-earth metals • Control of industrial processes in the field of extraction and processing of metals and materials

Progress in our knowledge of thermodynamics and physico-chemical factors in manganese ferroalloy production has developed rapidly during the past twenty-five years or so. The authors' intention has been to use this basic knowledge in discussions of industrial manganese ferroalloy production. The book presents the principles and current knowledge of processes in the production of high carbon ferromanganese, silicomanganese and low carbon manganese alloys. The book is intended for professionals working in production, plant design or development. It will also be useful for researchers in industry, universities and research institutes. The book can be used as a textbook for courses in extractive and process metallurgy, and for company in-house courses.

Thermodynamics of the slag and metal systems are extensively covered. Computational modelling based on assessed thermochemical databases has made it possible to calculate and present a large number of phase and equilibrium diagrams. These diagrams are useful for easy understanding and analysis of the complex heterogeneous equilibria in the manganese ferroalloy metallurgy. The manganese ferroalloys are mainly produced in electric submerged arc furnaces. Electrical relations are briefly discussed. Supply of raw materials, especially manganese ores and coke, is extremely important for the manganese industry. The book gives the reader appropriate knowledge regarding the selection the best of available raw materials. Environmental issues, including greenhouse gas emissions

and climate changes, are of growing concern to ferroalloy producers. Carbon will always be needed as a reducing agent, and consequently emission of CO2 gas is inevitable. The book describes solutions to dealing with pollution problems and gives the latest guidelines for greenhouse gas inventories.

Polycrystalline silicon (commonly called "polysilicon") is the material of choice for photovoltaic (PV) applications. Polysilicon is the purest synthetic material on the market, though its processing through gas purification and decomposition (commonly called "Siemens" process) carries high environmental risk. While many current optoelectronic applications require high purity, PV applications do not and

therefore alternate processes and materials are being explored for PV grade silicon. Solar Silicon Processes: Technologies, Challenges, and Opportunities reviews current and potential future processing technologies for PV applications of solar silicon. It describes alternative processes and issues of material purity, cost, and environmental impact. It covers limits of silicon use with respect to high-efficiency solar cells and challenges arising from R&D activities. The book also defines purity requirements and purification processes of metallurgical grade silicon (MG-Si) and examines production of solar grade silicon by novel processes directly from MG-Si and/or by decomposition of silane gas in a fluidized bed reactor (FBR). Furthermore, the book: Analyzes past research and industrial development of

low-cost silicon processes in view of understanding future trends in this field. Discusses challenges and probability of success of various solar silicon processes. Covers processes that are more environmentally sensitive. Describes limits of silicon use with respect to high-efficiency solar cells and challenges arising from R&D activities. Defines purity requirements and purification processes of MG-Si. Examines production of solar grade silicon directly from MG-Si.

This collection offers new research findings, innovations, and industrial technological developments in extractive metallurgy, energy and environment, and materials processing. Technical topics included in the book are thermodynamics and kinetics of metallurgical reactions, electrochemical processing of

materials, plasma processing of materials, composite materials, ionic liquids, thermal energy storage, energy efficient and environmental cleaner technologies and process modeling. These topics are of interest not only to traditional base ferrous and non-ferrous metal industrial processes but also to new and upcoming technologies, and they play important roles in industrial growth and economy worldwide.

This Special Issue of Crystals contains papers focusing on various properties of conducting ceramics. Multiple aspects of both the research and application of this group of materials have been addressed. Conducting ceramics are the wide group of mostly oxide materials which play crucial roles in various technical applications, especially in the context of the

harvesting and storage of energy. Without ion-conducting oxides, such as yttria-stabilized zirconia, doped ceria devices such as solid oxide fuel cells would not exist, not to mention the wide group of other ion conductors which can be applied in batteries or even electrolyzers, besides fuel cells. The works published in this Special Issue tackle experimental results as well as general theoretical trends in the field of ceramic conductors, or electroceramics, as it is often referred to.

Moving towards a sustainable and green economy requires the use of renewable resources for the production of fuels, chemicals, and materials. In such a scenario, the use of lignocellulosic biomass and waste streams plays an important

role, as it consists of abundant renewable resources. The complex nature of lignocellulosic biomass dictates the use of a pretreatment process prior to any further processing. Traditional methods of biomass pretreatment fail to recover cellulose, hemicellulose, and lignin in clean streams. It has been recognized that the efficient use of all the main fractions of lignocellulosic biomass (cellulose, hemicellulose, and lignin) is an important step towards a financially sustainable biomass biorefinery. In this context, switching from biomass pretreatment to biomass fractionation can offer a sustainable solution to recover relatively clean streams of cellulose, hemicellulose, and lignin. This Special issue aims at exploring the most advanced solutions in biomass and waste pretreatment and fractionation techniques, together with

novel (thermo)chemical and biochemical processes for the conversion of fractionated cellulose, hemicellulose and lignin to bioenergy, bio-based chemicals, and biomaterials, including the application of such products (i.e., use of biochar for filtration and metallurgical processes), as well as recent developments in kinetic, thermodynamic, and numeric modeling of conversion processes. The scope of this Special Issue will also cover progress in advanced measuring methods and techniques used in the characterization of biomass, waste, and products.

The book provides process engineers, an insight into refractories focusing on its importance and requirements in chemical process industries such as refinery and

petrochemicals, syngas manufacturing, coal gasification, limestone calcinations, carbon black, glass, and cement production. Additionally the book discusses the refractory requirements for the CFBC boiler, and waste heat utilization process to generate steam. The book describes characterization of refractory material and selection process of the refractory for lining different equipments pertaining to the chemical process industry. The book covers refractory installation techniques, and the precautions to be taken during installation are discussed in detail along with the theoretical background. It explains the physical and chemical factors that influence the performances of refractory, mechanism of its degradation in service and emphasizes on the thermo-chemical and thermo-mechanical aspects and

their role in that process . The content lays out different methods of monitoring Refractory lining conditions while the furnace is in operation and also elucidates few methods to repair the worn out lining without taking a shutdown. The scheme of investigation of a refractory failure is an added feature.