



Handbook of Metallurgical Process Design (Materials Engineering)

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Reviewing an extensive array of procedures in hot and cold forming, casting, heat treatment, machining, and surface engineering of steel and aluminum, this comprehensive reference explores a vast range of processes relating to metallurgical component design-enhancing the production and the properties of engineered components while reducing manufacturing costs. It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear. It also discusses alloy design for various materials, including steel, iron, aluminum, magnesium, titanium, super alloy compositions and copper.

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Review

Totten and colleagues have produced yet another niche publication in the area of materials engineering. Numerous figures and tables help provide visual enhancement of the text. The flow of the handbook is easy to follow; there is a sequential, logical structure to the articles. This book is intended to be a reference for persons involved in any aspect of product design, particularly metallurgists, materials scientists, product and process engineers, and component designers. The text can also be helpful for students, both undergraduate and graduate, who need information on material design. This can be a helpful addition to any library serving patrons focused on materials engineering.

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