



Aluminum-Lithium Alloys: Process Metallurgy, Physical Metallurgy, and Welding (Advances in Metallic Alloys)

Olga Grushko, Boris Ovsyannikov, Viktor Ovchinnokov

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Aluminum-Lithium Alloys: Process Metallurgy, Physical Metallurgy, and Welding provides theoretical foundations of the technological processes for melting, casting, forming, heat treatment, and welding of Al-Li alloys. It contains a critical survey of the research in the field and presents data on commercial Al-Li alloys, their phase composition, microstructure, and heat treatment of the ingots, sheets, forgings, and welds of Al-Li alloys. It details oxidation kinetics, protective alloying, hydrogen in Al-Li alloys, and crack susceptibility. It also discusses grain structure and solidification, as well as structural and mechanical properties. The book is illustrated with examples of Al-Li alloy applications in aircraft structures. Based on the vast experience of the coauthors, the book presents recommendations on solving practical problems involved with melting and casting ingots, welding of Al-Li alloys, and producing massive stampings for welded products.

Provides comprehensive coverage of Al-Li alloys, not available in any single source.

Presents research that is at the basis of the production technology for of ingots and products made of Al-Li alloys.

Combines basic science with applied research, including upscaling and industrial implementation.

Covers welding of Al-Li alloys in detail.

Discusses gas and alkali-earth impurities in Al-Li alloys.

Describes technological recommendations on casting and deformation of Al-Li alloys.

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