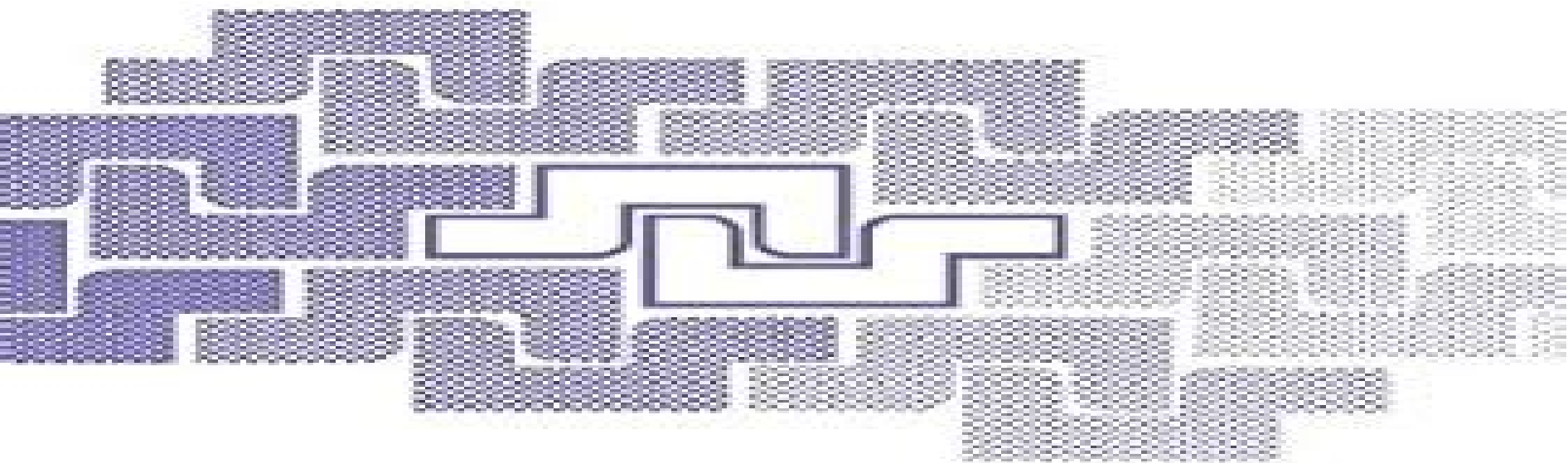




Advanced Light Alloys and Composites

Edited by
R. Ciach

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Advanced Light Alloys And Composites Nato Science Partnership Subseries 3

**Jose Martin Herrera Ramirez, Raul
Perez Bustamante, Cesar Augusto
Isaza Merino, Ana Maria Arizmendi
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Advanced Light Alloys and Composites R. Ciach, 2013-06-29 An expert exposition of the structural and mechanical properties of light alloys and composites bridging the gap between scientists and industrial engineers in its consideration of advanced light materials their structure properties technology and application Includes basic problems of alloy constitution and phase transformations The aluminium alloys are the main topic of the book consideration being given to their properties casting technology thermomechanical treatment and structure Attention is also given to the magnesium alloys particularly those having rare earth metal constituents Both commercial titanium alloys and intermetallic compounds are discussed as are metallic composites The latest engineering techniques are discussed in both theoretical and practical terms

International Aerospace Abstracts ,1999 American Book Publishing Record Cumulative 1998 R R Bowker Publishing,1999-03 The British National Bibliography Arthur James Wells,1998 **The Cumulative Book Index** ,1999

Unconventional Techniques for the Production of Light Alloys and Composites Jose Martin Herrera Ramirez, Raul Perez Bustamante, Cesar Augusto Isaza Merino, Ana Maria Arizmendi Morquecho, 2020-06-22 This book addresses methods used in the synthesis of light alloys and composites for industrial applications It begins with a broad introduction to virtually all aspects of the technology of light alloys and composite materials for aircraft and aerospace applications The basic theory of fiber and particle reinforcements light metallic material characteristics and composite systems components forms and manufacturing techniques and processes are discussed The book then progresses to describe the production of alloys and composites by unconventional techniques such as powder metallurgy sandwich technique severe plastic deformation additive manufacturing and thermal spray making it appropriate for researchers in both academia and industry It will be of special interest to aerospace engineers Provides a broad introduction to the technology used in manufacturing light alloys and composite materials Describes the current technologies employed in synthesizing light alloys made from advanced materials Focuses on unconventional techniques used to produce light alloys and composites in aerospace applications

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