

NEW BOOKS

**Welding and Joining of Aerospace Materials**

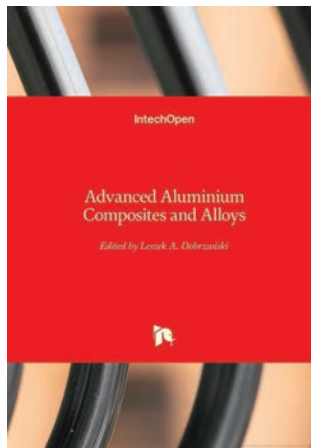
Editor: Mahesh Chaturvedi

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Woodhead Publishing Series in Welding and Other Joining Technologies

Welding and Joining of Aerospace Materials, Second Edition, is an essential reference for engineers and designers in the aerospace, materials, welding and joining industries, as well as companies and other organizations operating in these sectors. This updated edition brings together an international team of experts with updated and new chapters on electron beam welding, friction stir welding, weld-bead cracking, and recent developments in arc welding.

**Advanced Aluminium Composites and Alloys**

Leszek A. Dobrzański

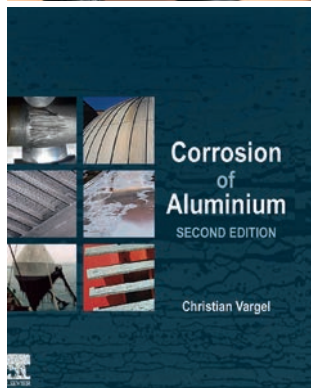
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Aluminium is an engineering material of strategic importance in the current stage of Industry 4.0. This book discusses advanced composites based on aluminium alloys. It also describes pressure infiltration of gas with liquid aluminium, the mechanical synthesis of aluminium alloy powder and halloysite nanotubes (HNTs) or multi-wall carbon nanotubes (MWCNTs) consolidated by plastic deformation, selected optimization and prediction models, casting aluminium alloys containing zirconium, aluminium alloys subjected to high-speed extrusion of shapes, corrosion resistance of alloys containing lithium, machining conditions of alloys with copper and zinc additions, and more.

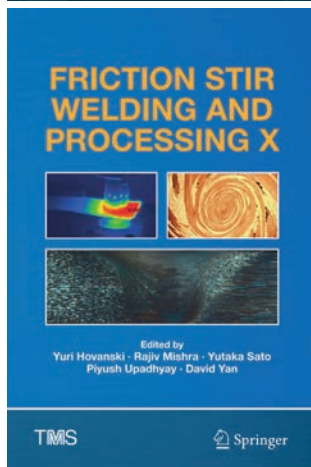
**Corrosion of Aluminium**

Christian Vargel

Hardcover ISBN: 9780080999258

eBook ISBN: 9780080999272

Corrosion of Aluminium, Second Edition, highlights the practical and general aspects of the corrosion of aluminium alloys. Chapters help readers new to the topic understand the metallurgical, chemical and physical features of aluminium alloys. Author Christian Vargel adopts a practitioner styled approach that is based on the expertise he has gained during a 40-year career in aluminium corrosion. The book assesses the corrosion resistance of aluminium, a key metric recognized as one of the main conditions for the development of many uses of aluminium in transport, construction, power transmission, and more.

**Friction Stir Welding and Processing X**

Yuri Hovanski, Rajiv Mishra, Yutaka Sato

ISSN 2367-1181 ISSN 2367-1696 (electronic) The Minerals, Metals & Materials

Series ISBN 978-3-030-05751-0 ISBN 978-3-030-05752-7 (eBook)

A current look at friction stir welding technology from application to characterization and from modeling to R&D. Assembles recent progress relating to friction stir technologies including derivative technologies, high-temperature applications, industrial applications, dissimilar alloy/materials, lightweight alloys, simulation, and characterization. Led by industrial and academic experts in the field