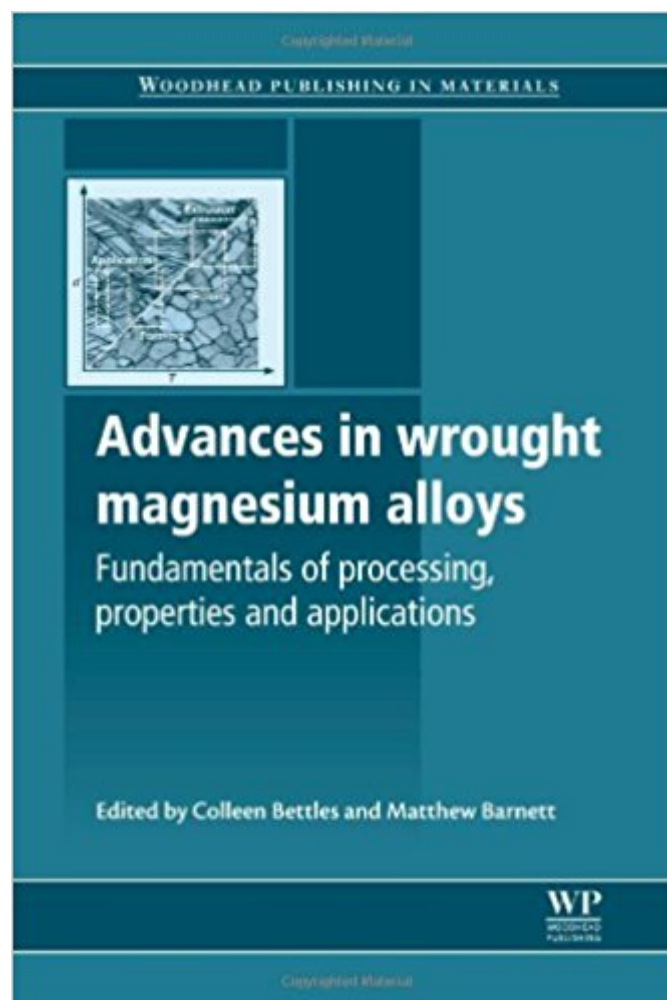


The book was found

# Advances In Wrought Magnesium Alloys: Fundamentals Of Processing, Properties And Applications (Woodhead Publishing Series In Metals And Surface Engineering)





## Synopsis

This important book summarises the wealth of recent research on our understanding of process-property relationships in wrought magnesium alloys and the way this understanding can be used to develop a new generation of alloys for high-performance applications. After an introductory overview of current developments in wrought magnesium alloys, part one reviews fundamental aspects of deformation behaviour. These chapters are the building blocks for the optimisation of processing steps covered in part two, which discusses casting, extrusion, rolling and forging technologies. The concluding chapters cover applications of wrought magnesium alloys in automotive and biomedical engineering. With its distinguished editors, and drawing on the work of leading experts in the field, *Advances in wrought magnesium alloys* is a standard reference for those researching, manufacturing and using these alloys. Summarises recent research on our understanding of process-property relationships in wrought magnesium alloys. Discusses the way this understanding can be used to develop a new generation of alloys for high-performance applications. Reviews casting, extrusion, rolling and forging technologies, fundamental aspects of deformation behaviour, and applications of wrought magnesium alloys in automotive and biomedical engineering.

## Book Information

Series: Woodhead Publishing Series in Metals and Surface Engineering

Hardcover: 480 pages

Publisher: Woodhead Publishing; 1 edition (May 9, 2012)

Language: English

ISBN-10: 1845699688

ISBN-13: 978-1845699680

Product Dimensions: 6.1 x 1.1 x 9.2 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,712,442 in Books (See Top 100 in Books) #127 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing](#) #409 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy](#) #1120 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing](#)

## Customer Reviews

"...magnesium is one of the environment friendly materials due to its light weight resulting in significant negative environmental impacts, and this book covers this topic well."--International Journal of Environmental Studies, Vol 70, Issue 2-13 This is a comprehensive book with very recent research outputs and practical examples of application., International Journal of Environmental Studies – should be required reading for all wrought magnesium researchers., Materials World

Colleen Bettles is Assistant Director of the ARC Centre of Excellence for Design in Light Metals at Monash University. Matthew Barnett is ARC Future Fellow and Professor of Metallurgy at Deakin University. Both are internationally-renowned for their research in magnesium alloys.

[Download to continue reading...](#)

Advances in Wrought Magnesium Alloys: Fundamentals of Processing, Properties and Applications (Woodhead Publishing Series in Metals and Surface Engineering) The Periodic Table of Elements - Alkali Metals, Alkaline Earth Metals and Transition Metals | Children's Chemistry Book Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Tribology and Dynamics of Engine and Powertrain: Fundamentals, Applications and Future Trends (Woodhead Publishing in Mechanical Engineering) Quantum Information Processing with Diamond: Principles and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Fundamentals of Creep in Metals and Alloys, Third Edition Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and Applications in Surface Engineering (Tribology and Interface Engineering) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Advances in Concentrating Solar Thermal Research and Technology (Woodhead Publishing Series in Energy) Advances in Wind Turbine Blade Design and Materials (Woodhead Publishing Series in Energy) Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological Interactions (Woodhead Publishing Series in Biomaterials) Handbook of Waste Management and Co-Product Recovery in Food Processing (Woodhead Publishing Series in Food Science, Technology and Nutrition) Mechanisms of Diffusional Phase Transformations in Metals and Alloys Phase Transformations in Metals and Alloys, Third Edition (Revised Reprint) Superconductivity Of Metals And Alloys (Advanced Books Classics) Materials Processing: A Unified Approach to Processing of

Metals, Ceramics and Polymers Principles and Applications of Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series in Electronic and Optical Materials) Coal Power Plant Materials and Life Assessment: Developments and Applications (Woodhead Publishing Series in Energy) Lasers for Medical Applications: Diagnostics, Therapy and Surgery (Woodhead Publishing Series in Electronic and Optical Materials)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)