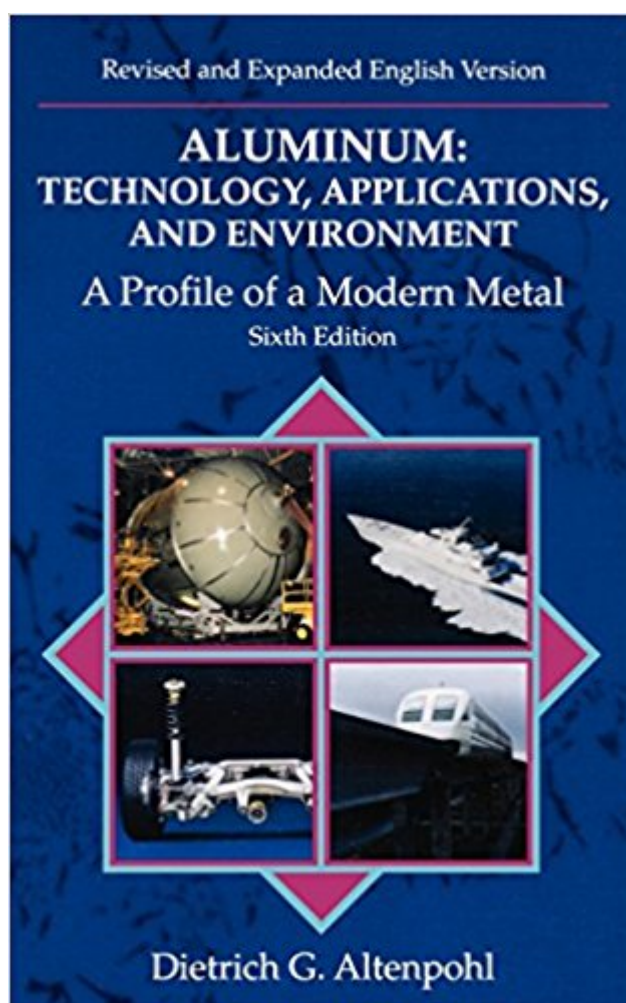


The book was found

# Aluminum: Technology, Applications And Environment: A Profile Of A Modern Metal Aluminum From Within



## Synopsis

Aluminum: Technology, Applications, and Environment is an impressive book that has evolved into the definitive educational text and reference book for aluminum industry participants, a broad range of aluminum fabricators and users, students, and the scientific, engineering, and academic community. This extraordinary book incorporates significant inputs from outstanding aluminum industry and academic participants throughout North America and Europe and is designed to fulfill the needs of both technically-trained and non-technical individuals. The text builds from a brief history of aluminum through its various production and processing steps with a clear and refreshing description of relationships between processing steps, structure, and properties of aluminum alloys. Expert attention is given to various casting processes and the role of metal quality and casting parameters and methods. Descriptions of key mechanical test methods and property relationships, along with valuable descriptions of major industrial forming processes and their underlying thermomechanical principles are included. The fundamental principles of alloying aluminum with various elements and the use of heat treating methods to achieve specific properties are also included, along with an excellent treatment of corrosion principles and a broad range of methods used to enhance corrosion protection. An effective description of modern joining technologies and principles for the manufacture of various aluminum structures is included for the practitioner. Various examples are given regarding the utilization of composition controls, microstructure, and manufacturing process controls to achieve the desired combinations of properties for various applications, including can making. The significance of computer-aided materials design, computer-aided engineering of components, and computer-aided manufacturing methods are recognized. The author also addresses the current relative competitive properties and trade-offs regarding aluminum versus magnesium, titanium, plastics, composite materials, and steel. One of the most significant additions to the sixth edition of this book is a highly informative description of a wide array of emerging applications for aluminum, ranging from aerospace, buildings, bridges, infrastructure, and automotive, to marine, rail, packaging and durable goods.

## Book Information

Hardcover: 488 pages

Publisher: Wiley-TMS; 6 edition (April 1, 1998)

Language: English

ISBN-10: 0873394062

ISBN-13: 978-0873394062

Product Dimensions: 6.5 x 1.3 x 9.4 inches

Shipping Weight: 2.1 pounds

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #680,100 in Books (See Top 100 in Books) #158 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy](#) #700 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science](#) #2985 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems](#)

## Customer Reviews

Text: English (translation) Original Language: German

Very nice book, specially for those starting now with Aluminum Metallurgy. The text is an evolution of the old book "Aluminum Viewed from Within", same author, basic and mandatory text for metallurgists. This new edition brings much more illustrations from the "outside" world of Aluminum, the Aluminum industry .

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

Aluminum: Technology, Applications and Environment: A Profile of a Modern Metal Aluminum from Within Heavy Metal Rhythm Guitar: The Essential Guide to Heavy Metal Rock Guitar (Learn Heavy Metal Guitar) (Volume 1) Welding Filler Metal Data Book : Your First Source for Filler Metal Technology Progressive Metal Guitar: An Advanced Guide to Modern Metal Guitar The Heavy Metal Guitar Bible: The Complete Guide to Modern Heavy Metal Guitar Learn to Weld: Beginning MIG Welding and Metal Fabrication Basics - Includes techniques you can use for home and automotive repair, metal fabrication projects, sculpture, and more Sheet Metal Handbook: How to Form and Shape Sheet Metal for Competition, Custom and Restoration Use Heavy Metal Africa: Life, Passion, and Heavy Metal in the Forgotten Continent Full Metal Jackie Certified: The 50 Most Influential Heavy Metal Songs of the 80s and the True Stories Behind Their Lyrics Lithium Metal Anodes and Rechargeable Lithium Metal Batteries (Springer Series in Materials Science) Transition Metal Complexes as Drugs and Chemotherapeutic Agents (Catalysis by Metal Complexes) Precious Metal: Decibel Presents the Stories Behind 25 Extreme Metal Masterpieces Metal Detecting for Kids: An Easy Guide for Finding Buried Treasures With a Metal Detector Metal Bible NLT: Silver Cross (Heavy Metal Bible Series) Metal Bible NLT: Silver Thirsty (Heavy Metal Bible Series) Metal Roofing: Book 1 (Metal roofing instruction manuals) (Volume 1) Metal Detecting: Without A

Detector: How To Find Treasure When You Can't Use Your Metal Detector (Gold, Coins & Jewelry)  
Metal-Ligand Multiple Bonds: The Chemistry of Transition Metal Complexes Containing Oxo,  
Nitrido, Imido, Alkylidene, or Alkylidyne Ligands Properties of Aluminum Alloys: Tensile, Creep, and  
Fatigue Data at High and Low Temperatures (#09813G) The Surface Treatment and Finishing of  
Aluminum and Its Alloys (06727G) 2 Vol set.

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)