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Book Description What makes this book unique is a specific focus on aluminum recovery, rather than just recycling in general. It also offers an integrated discussion of scrap recovery and re-melting operations and includes economic as well as technical elements of recycling.

Aluminum Recycling - 2nd Edition - Mark E. Schlesinger ...

Winner of the International Solid Waste Association's 2014 Publication Award, Handbook of Recycling is an authoritative review of the current state-of-the-art of recycling, reuse and reclamation processes commonly implemented today and how they interact with one another. The book addresses several material flows, including iron, steel, aluminum and other metals, pulp and paper, plastics, glass, construction materials, industrial by-products, and more.

Handbook of Recycling | ScienceDirect

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Engineering Data for Copper and Aluminum Conductor ...

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wide variety of alloys with differing mechanical and protection properties is available, and these, together with the exceptional range of finishes which can be used, make aluminium a very

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versatile material. 2. THE OXIDE FILM When a freshly formed aluminium metal surface is exposed to the atmosphere,

Introduction: Aluminium, Its Properties, Alloys and Finishes

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Handbook of Aluminum: Volume 2: Alloy Production and ...

Book Description This reference provides thorough and in-depth coverage of the latest production and processing technologies encountered in the aluminum alloy industry, discussing current analytical methods for aluminum alloy characterization as well as extractive metallurgy, smelting, master alloy formation, and recycling.

Handbook of Aluminum: Volume 2: Alloy Production and ...

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Handbook of Recycling - 1st Edition

It begins with a review of temper designations and product forms and the underlying physical metallurgy of aluminum alloys. It then examines manufacturing practices and techniques, focusing in critical areas such as casting, metalworking, heat treating, machining and finishing, surface treatment, and joining.

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The book deals with aluminium as material and its recovery from bauxite, the various process steps and procedures, melting and

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casting plants, metal treatment facilities, provisions and equipment for environmental control and workforce safety, cold and hot recycling of aluminium including scrap preparation and remelting, operation and plant management.

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The most popular process is represented by the primary recycling due to their simplicity and low cost. This process refers to the reuse of products in their original structure. The disadvantage of this process is represented by the existence of a limit on the number of cycles for each material [18,36,37]. 2.2. Secondary Recycling or Mechanical ...

Methods of Recycling, Properties and Applications of ...

Aluminum possesses many characteristics that make it highly compatible with recycling. Production of aluminum from scrap has a number of advantages. This article discusses the technology for the recovery, sorting, and remelting of aluminum. It describes the collection and acquisition of aluminum scrap in transportation, packaging, electrical and electronic, and building and construction sectors.

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