1. Record Nr. UNINA9911019497803321 Autore Lipowsky Hansjorg Titolo Copper in the automotive industry / / Hansjorg Lipowsky and Emin Arpaci ; [in cooperation with ECI - European Copper Institute] Weinheim,: Wiley-VCH, c2007 Pubbl/distr/stampa **ISBN** 9786611239213 9781281239211 1281239216 9783527611652 3527611657 9783527611645 3527611649 Descrizione fisica 1 online resource (193 p.) Altri autori (Persone) ArpaciEmin 669.3 Disciplina Soggetti Automobile industry and trade Copper - Industrial applications Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Copper in the Automotive Industryh; Contents; Preface; 1 Raw Material Nota di contenuto Resources; 1.1 Primary Raw Materials [1]; 1.2 Availability; 2 Production; 2.1 From Ore to Copper Concentrate [1, 4]; 2.2 From Copper Concentrate to Refined Copper [1, 4]; 2.3 Secondary Copper Production; 2.4 Energy Consumption [12]; 2.5 Recycling [8-10]; 2.6 Environmental Protection [12]; 3 Classification of Copper Materials; 3.1 Wrought Copper Materials; 3.1.1 Copper [1, 14]; 3.1.2 Low Alloyed Wrought Copper [14, 15]; 3.1.3 Wrought Copper-Zinc Alloys [14, 16]; 3.1.4 Wrought Copper-Tin Alloys [14, 17] 3.1.5 Wrought Copper-Nickel Alloys [14, 18]3.1.6 Wrought Copper-Nickel-Zinc Alloys [14, 19]; 3.1.7 Wrought Copper-Aluminum Alloys [14, 20]: 3.2 Copper Casting Materials: 3.2.1 Copper and Copper-Chromium Casting Materials [1, 21]; 3.2.2 Copper-Zinc Casting Alloys [16, 21]; 3.2.3 Copper-Tin Casting Alloys [21, 22]; 3.2.4 Copper-Tin-Lead Casting Alloys [21-23]; 3.2.5 Copper-Aluminum Casting Alloys

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Sommario/riassunto

A comprehensive and substantial source of information on the properties, production, processing and applications of copper and copper alloys, of interest to metallurgical, development, design and testing engineers in the automotive and other industries using copper. The authority behind this book - the German Copper Institute - was founded in 1927 and is the technical-scientific advisory center for all questions concerning applications and the processing of copper and copper alloys in Germany. For more than 75 years, the technical scientific advisory and information service of the institute