Record Nr. UNINA9910131029903321 Handbook of hot-dip galvanization [[electronic resource] /] / edited by **Titolo** Peter Maass and Peter Peissker; [translation, Christine Ahner] Pubbl/distr/stampa Weinheim,: Wiley-VCH, c2011 **ISBN** 1-283-14093-4 9786613140937 3-527-63690-0 3-527-63688-9 Descrizione fisica 1 online resource (486 p.) Altri autori (Persone) MaassPeter, Dr. rer. oer. PeisskerPeter **AhnerChristine** Disciplina 500 671.733 Soggetti Galvanizing Galvanizing - Safety measures Steel, Galvanized Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia 1: Corrosion and Corrosion Protection; 1.1 Corrosion; 1.1.1 Causes of Nota di contenuto Corrosion; 1.1.2 Types of Corrosion; 1.1.3 Corrosion Phenomena; 1.1.4 Corrosive Stress; 1.1.4.1 Atmospheric Corrosion; 1.1.4.2 Corrosion in the Soil; 1.1.4.3 Corrosion in Water; 1.1.4.4 Special Corrosive Stress; 1.1.4.5 Avoidance of Corrosion Damages; 1.2 Corrosion Protection; 1.2.1 Procedures: 1.2.1.1 Active Procedures: 1.2.1.2 Passive Procedures; 1.2.2 Commercial Relevance; 1.2.3 Corrosion Protection and Environmental Protection; Appendix 1.A; 2: Historical Development of Hot-dip Galvanizing; References 3: Surface-preparation Technology3.1 As-delivered Condition; 3.1.1 Basic Material; 3.1.1.1 Steel Composition; 3.1.2 Surface Finish; 3.1.2.1 Similar Contaminants: 3.1.2.2 Dissimilar Contaminants: 3.1.2.3 Defects on Steel Substrates; 3.1.3 Steel Surface Roughness; 3.2 Mechanical Surface-preparation Methods; 3.2.1 Blast Cleaning; 3.2.2 Barrel Finishing: 3.3 Chemical Cleaning and Degreasing: 3.3.1 Alkaline

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Sommario/riassunto

Hot-dip galvanization is a method for coating steel workpieces with a protective zinc film to enhance the corrosion resistance and to improve the mechanical material properties. Hot-dip galvanized steel is the material of choice underlying many modern buildings and constructions, such as train stations, bridges and metal domes. Based on the successful German version, this edition has been adapted to include international standards, regulations and best practices. The book systematically covers all steps in hot-dip galvanization: surface pre-treatment, process and systems technology, environm