Handbook of Hot-dip Galvanization

Description: 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. Many modern buildings and constructions, such as train stations, bridges and metal domes rely on a steel skeleton that needs to perform safely for decades even under detrimental influences – hot-dip galvanized steel is the material of choice.

The book systematically covers all steps of the hot-dip galvanization process. The reader finds the basics such as corrosion and zinc film formation as well as the most important aspects of process technology and technical equipment, alongside with contributions on workpiece requirements for optimal galvanization results and on methods for applying additional protective coatings to the galvanized pieces.

Separate chapters deal with the important topics of safety at work, environment protection, profitability considerations and quality management. With over 200 illustrated examples, step-by-step instructions, presentations and reference tables, this is essential reading for apprentices and professionals alike.

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