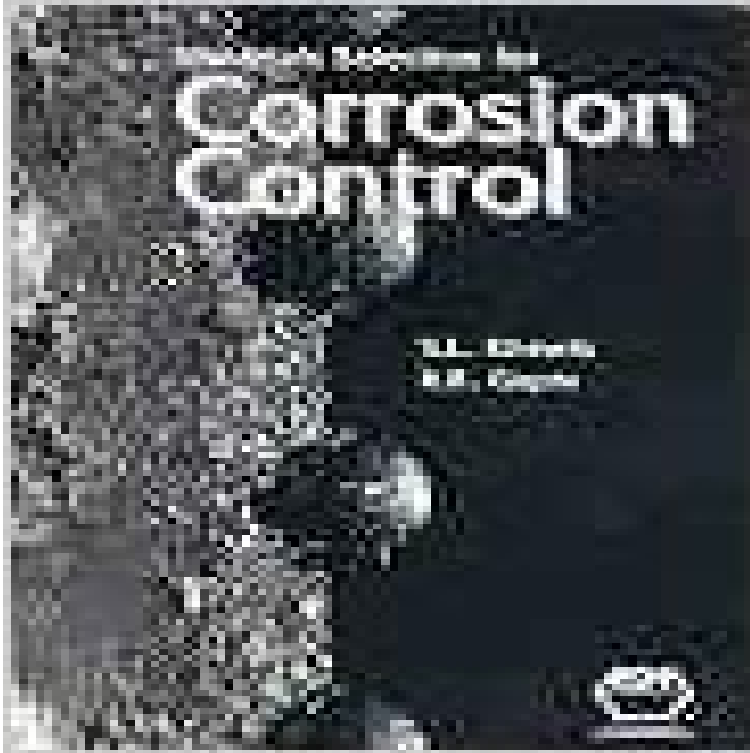


Materials Selection for Corrosion Control



Provides a systematic methodology for integrating materials selection with the design process, including simultaneous technical and economic evaluation. Save hours of frustrating research time. Get fast answers about the best material for a particular application. For the practicing design and maintenance engineer concerned with corrosion, an excellent reference for graduates and students. Don't get bogged down with voluminous data; get useful information on a vast subject that was previously covered by many different books. If you are involved in the design or maintenance of products or equipment where corrosion is a concern, you know that materials selection is an age-old problem. Not only do you have to consider the material's ability to resist corrosion, you must achieve an optimum cost-effective design with minimal total life-cycle cost. In the past, researching the endless sources on corrosion and materials in their countless applications was next to impossible. That's why this book was written: to help simplify your materials selection problems. It's an exhaustive source on the different corrosion-resistant materials, types of corrosion, factors affecting corrosion, passivation, corrosion monitoring, corrosion control measures, methodology of materials selection, and more. This straight-to-the-point book is divided into six sections: Corrosion Materials; Ferrous Materials; Non-ferrous Metals and Alloys; Non-Metallic Materials; Corrosion Control Measures; Selection of Materials, and is comprised of a total of 30 chapters. It covers a wide spectrum of applications in the aerospace, automotive, chemical, materials, mechanical, power engineering, marine, and biomedical industries, providing a systematic methodology for materials selection. Integral to each materials selection discussion are design considerations, manufacturability, and

economic concerns, providing you with a solid understanding of the factors influencing corrosion of materials and how these materials can work for you. As a one-stop reference source, this book not only contains thorough explanations, it is also enhanced with 187 figures and 184 tables, enabling you to quickly access easy-to-understand information.

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