



Principles of Corrosion Engineering and Corrosion Control

By Zaki Ahmad

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Principles of Corrosion Engineering and Corrosion Control By Zaki Ahmad

Corrosion is a huge issue for materials, mechanical, civil and petrochemical engineers. With comprehensive coverage of the principles of corrosion engineering, this book is a one-stop text and reference for students and practicing corrosion engineers. Highly illustrated, with worked examples and definitions, it covers basic corrosion principles, and more advanced information for postgraduate students and professionals. Basic principles of electrochemistry and chemical thermodynamics are incorporated to make the book accessible for students and engineers who do not have prior knowledge of this area. Each form of corrosion covered in the book has a definition, description, mechanism, examples and preventative methods. Case histories of failure are cited for each form. End of chapter questions are accompanied by an online solutions manual.

- * Comprehensively covers the principles of corrosion engineering, methods of corrosion protection and corrosion processes and control in selected engineering environments
- * Structured for corrosion science and engineering classes at senior undergraduate and graduate level, and is an ideal reference that readers will want to use in their professional work
- * Worked examples, extensive end of chapter exercises and accompanying online solutions and written by an expert from a key petrochemical university

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Editorial Review

Review

"During my 25 years experience in the field, both as a teacher and researcher, it is commonly acknowledged that a comprehensive text for corrosion engineering is lacking. The material supplied indicates the author is fully addressing this problem."

- Dr. Paulette, National Research Council, Washington, USA

Principles of Corrosion Engineering and Corrosion control is written for mechanical, civil, and petrochemical engineers as well as students and practicing corrosion engineers. Its well-illustrated 672 pages provide worked examples and definitions, covers basic corrosion principles as well as more advanced information for postgraduate students and professionals.-welding Journal, December 2006

From the Back Cover

The complete corrosion engineering text, fully course matched, with excellent pedagogic features and real world applications

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- Complete with worked examples, extensive end of chapter exercises and accompanying online solutions

Dr Zaki Ahmad is Professor in the Department of Mechanical Engineering at the King Fahd University of Petroleum and Minerals, Saudi Arabia.

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