



# Corrosion of Metals: Physicochemical Principles and Current Problems (Engineering Materials and Processes)

By Helmut Kaesche

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Corrosion due to water is one of the most significant and complex causes of damage to metallic products. Written from the viewpoint of physical chemistry, this authoritative and established text deals with the aqueous corrosion of metals. Available for the first time in English, **Corrosion of Metal** addressing engineers, metallurgists, physicists and chemists. This self-contained, valuable reference comprehensively organizes and makes readily accessible the accumulated wealth of fundamental and applied knowledge. The concentration is on the underlying essentials of corrosion and failure, and the material is consistently presented in relation to practical applications to corrosion protection. The first chapters introducing the physicochemical principles are ideal for students. The following chapters provide an overview of the state of research for those familiar with the fundamentals. An exhaustive bibliography and appendices conclude the volume.

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*By Helmut Kaesche*

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"Corrosion of Metals: Physicochemical Principles and Current Problems is a revision and translation into English of Die Korrosion der Metalle ... . Kaesche has provided ample opportunity for the serious reader to study the subjects in greater depth. This text is a solid addition to the library of both the practicing engineer and the researcher ... . The depth and breadth of the material ... make this an appropriate adjunct or even a primary text in a senior-level or graduate course on the subject." (Edward J. Bawolek, The Industrial Physicist, October, 2004)

"In corrosion of metals, Helmut Kaesche ... gives a rich and insightful overview of metallic corrosion to the readers based upon his research works for several decades on passivity, stress corrosion cracking, pitting corrosion and corrosion fatigue of various metal systems. ... On the whole, this book is well balanced between the practical and theoretical viewpoints on metallic corrosion. ... I think that it is a mine of information relating to corrosion." (Su-II Pyun, Journal of Solid State Electrochemistry, Vol. 9 (9), 2005)

From the Back Cover

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