

# Corrosion and Corrosion Protection: Proceedings of an International Symposium Honoring Professor H.H. Uhlig on His Seventy-fifth Birthday, 1981, Robert Peter Frankenthal, Florian Mansfeld, Electrochemical Society, 1981

Corrosion and corrosion control. Year: 2008. Language: english. Author: R. Winston Revie + Herbert H. Uhlig. Genre: Technical book. Edition: 4. Format: PDF. Quality: eBook. Pages count: 513. Description: The three main global challenges for the 21st century are energy, water, and air that is, sufficient energy to ensure a reasonable standard of living, clean water to drink, and clean air to breathe. This multifactor nature of corrosion seriously complicates the theoretical choice of an efficient corrosion inhibitor (CI), often requiring careful experimental studies and creating unjustified skepticism about the fundamental character of the physical chemistry area related to the study and development of CIs. Meanwhile, this skepticism can be proved wrong by the progress made over the past quarter century in various... He remained interested in these inhibitors throughout his whole life, so it is not surprising that in his latest book "Corrosion Inhibitors" (1977) he reexamined the interaction of some inorganic CIs, primarily chromate, with the metal at a more modern level, including a quantum-chemical approach. Corrosion Handbook Edited by Herbert H. Uhlig Modern Electroplating, Third Edition Edited by Frederick A. Lowenheim Modern Electroplating, Fifth Edition Edited by Mordechai Schlesinger and Milan Paunovic The Electron Microprobe Edited by T. D. McKinley, K. F. J. Heinrich, and D. B. Wittry Chemical Physics of Ionic Solutions Edited by B. E. Conway and R. G. Barradas High-Temperature Materials and Technology Edited... Over the years that I knew Professor Uhlig personally, he often mentioned to me his concern for the need to produce a revised edition of the Handbook. I am confident that he would have been very pleased that one of his doctoral students at MIT, Winston Revie, had taken up this challenge. The breadth of corrosion and corrosion control is made.