

Philip A Schweitzer Corrosion Resistance Tables Metals

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this volume offers solutions to the problems associated with atmospheric corrosion by covering corrosion theory the mechanisms and effects of corrosion on specific materials and the means of protecting materials against atmospheric conditions it assesses the financial cost of protecting construction materials against the elements and it considers temperature humidity and the presence of contaminants in the air to optimize the ability of materials to withstand the influence of weathering

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written by an authority in corrosion science this reference offers a comprehensive description of the causes of corrosion as well as the means to limit or prevent it it explains the mechanisms and forms of corrosion the methods of attack on plastic materials and the causes of failure in protective coatings linings and paints emphasizing atmospheric exposure the text presents vital information regarding the design of structures automobiles household plumbing manufacturing equipment and other entities as well as the effects of de icing chemicals on highways and bridges

this invaluable reference provides a comprehensive overview of corrosion and environmental effects on metals intermetallics glossy metals ceramics and composites of metals and ceramics and polymer materials it surveys numerous options for various applications involving environments and guidance in materials selection and substitution exploring a wide range of environments including aqueous and high temperature surroundings environmental effects on engineered materials examines specific material environmental interactions corrosion rates and material limitations preventive measurements against corrosion utilization of older materials in recent applications the use of new materials for existing equipment and more

corrosion of polymers and elastomers provides a detailed examination of the corrosive effects of thermoplastic polymers thermoset polymers and elastomeric materials the book is perfectly suited for specialists interested in the corrosion resistance and mechanisms of these materials following a general introduction to the composition pr

electrocorrosion the corrosion of metallic constructions by external currents is the most significant factor in conductive aggressive environments corrosion of underground and underwater metal

constructions by stray currents has been comprehensively studied in the past decades and is considered here only in the form of a review the primary attention is on corrosion by external anodic mainly and cathodic currents of metal constructions in the highly aggressive environments typical for electrochemical plants where penetration of the external currents leakage currents from the electrolytic baths into metal constructions is unavoidable a new approach to the problem of electrocorrosion protection of passive structural metals is considered in this book keeping the metals attacked by external currents in the boundaries of their passive field the systems developed in accordance with this approach are based on the modification of existing and elaboration of new methods of electrocorrosion protection these systems take into account corrosion and electrochemical characteristics of the aggressive media redox potential conductivity etc and of the passive metal corrosion and activation potentials current density in a passive state etc as well as the sizes and distribution character of the external currents the book covers analysis of leakage current distributions in electrochemical plants their influence methods to estimate corrosion stability of metallic structures subject to external currents and presents many concrete examples of the successful introduction of corrosion protection systems in operating plants a new approach to protection from electrocorrosion taking into account the passive state of the metal in aggressive media newly developed and modifications of well known methods of electrocorrosion protection are presented systematized data on electrocorrosion and protection of metals especially in electrochemical plants allow corrosion engineers researchers and personnel maintaining the equipment of electrochemical plants to analyze the corrosion state of metallic equipment and prevent electrocorrosion

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