Designing Cathodic Protection Systems for Marine Structures and Vehicles

Harvey P. Hack, editor

ASTM Stock Number: STP1370

ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Printed in the U.S.A.
Contents

Overview vii

The Slope Parameter Approach to Marine Cathodic Protection Design and
Its Application to Impressed Current Systems—W. H. HARTT 1

Design of Impressed Current Cathodic Protection (ICCP) Systems for U.S. Navy Hulls—
K. E. LUCAS, E. D. THOMAS, A. I. KAZNOFF, AND E. A. HOGAN 17

Relationship of Chemical Components and Impurities of Aluminum Galvanic Anodes
Upon the Cathodic Protection of Marine Structures—C. F. SCHRIEBER 39

Cathodic Protection System Design for Steel Pilings of a Wharf Structure—S. NIKOLAKAKOS 52

Cathodic Protection Requirements for Deepwater Systems—C. M. MENENDEZ, H. R. HANSON,
R. D. KANE, AND G. B. FARQUHAR 71

Computational Design of ICCP Systems: Lessons Learned and Future Directions—
V. G. DeGIORGI AND K. E. LUCAS 87

Cathodic Protection Deployment on Space Shuttle Solid Rocket Boosters—L. M. ZOOK 101