

The Electrochemical Society

Modeling and Simulation of Dissolution and Corrosion Processes

at the 212th ECS Meeting

ECS Transactions Volume 11 No.12

October 7 – 12, 2007
Washington, DC, USA

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-185-4

Some format issues inherent in the e-media version may also appear in this print version.

Copyright 2008 by The Electrochemical Society.
All rights reserved.

This book has been registered with Copyright Clearance Center.
For further information, please contact the Copyright Clearance Center,
Salem, Massachusetts.

Published by:

The Electrochemical Society
65 South Main Street
Pennington, New Jersey 08534-2839, USA

Telephone 609.737.1902
Fax 609.737.2743
e-mail: ecs@electrochem.org
Web: www.electrochem.org

ISSN 1938-6737 (online)
ISSN 1938-5862 (print)

Printed in the United States of America.

Table of Contents

Preface

Modeling of Crevice Corrosion of Fe - Cr Alloys in Chloride Media <i>M. Stroe, R. Oltra and B. Vuillemin</i>	1
Current Distribution on a Cathode Covered by a Thin Film Electrolyte in Crevice Corrosion - An Analytical Model <i>A. S. Agarwal, U. Landau and J. H. Payer</i>	11
EIS Studies of Copper Dissolution in Arginine and Hydrogen Peroxide <i>N. Yerriboina, V. Venkatakrishnan and R. Srinivasan</i>	33
Influence of Additives on the Transpassive Dissolution of Ferritic Steels in Phosphoric Acid-Acetic Acid Electrolytes <i>T. B. Tzvetkoff, I. G. Betova and M. S. Bojinov</i>	43
Author Index	53