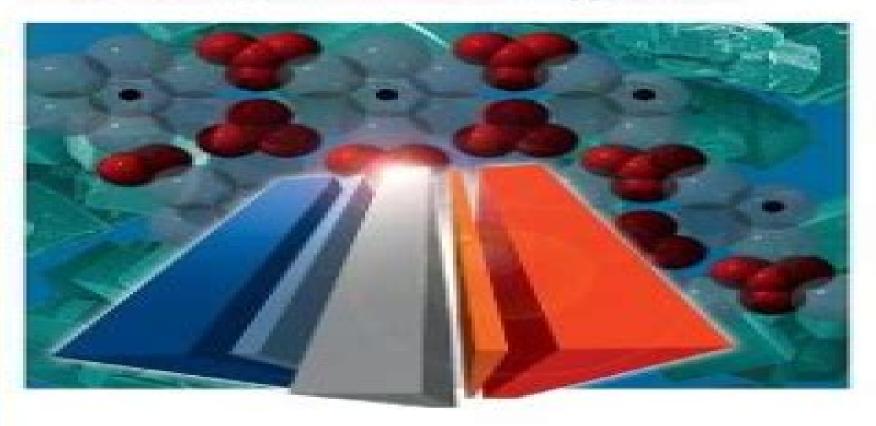
# Solid State Electrochemistry I

Fundamentals, Materials and their Applications



# **Solid State Electrochemistry**

Peter G. Bruce

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K.S. Goto,1988 It is estimated that about 40% of the annual production of metals is used to repair or replace materials damaged by corrosion Corrosion causes waste of the natural material and energy resources it creates serious materials problems for many technologies and adversely affects almost every area of engineering The use of metals in various aggressive environments has resulted in an extremely wide diversity of corrosion problems This book presents a collection of concise reviews written by experts in the field on selected topics of metallic corrosion and on some aspects of interaction of hydrogen with metals A comprehensive range of problems is examined including localized corrosion high temperature corrosion in liquid metals and molten salts transport control in corrosion processes entry of hydrogen into metals hydrogen embrittlement and hydrogen reactions with metals The variety of topics covered in the book will provide corrosion scientists engineers university lecturers and students alike with an interdisciplinary approach to solving problems of materials degradation and surface processes in metal corrosion

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