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Solid State Electrochemistry

P.J. Gellings, H.J.M. Bouwmeester

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Solid State Electrochemistry:

Solid State Electrochemistry Peter G. Bruce, 1997-06-12 This book describes for the first time in a modern text the fundamental principles on which solid state electrochemistry is based In this sense it is in contrast to other books in the field which concentrate on a description of materials Topics include solid ceramic electrolytes glasses polymer electrolytes intercalation electrodes interfaces and applications The different nature of ionic conductivity in ceramic glassy and polymer electrolytes is described as are the thermodynamics and kinetics of intercalation reactions The interface between solid electrolytes and electrodes is discussed and contrasted with the more conventional liquid state electrochemistry The text provides an essential foundation of understanding for postgraduates or others entering the field for the first time and will also be of value in advanced undergraduate courses Solid-State Electrochemistry Abdelkader Hammou, Samuel Georges, 2020-02-03 This book features the essential material for any graduate or advanced undergraduate course covering solid state electrochemistry It provides the reader with fundamental course notes and numerous solved exercises making it an invaluable guide and compendium for students of the subject The book places particular emphasis on enhancing the reader's expertise and comprehension of thermodynamics the Kröger-Vink notation the variation in stoichiometry in ionic compounds and of the different types of electrochemical measurements together with their technological applications Containing almost 100 illustrations a glossary and a bibliography the book is particularly useful for Master and PhD students industry engineers university instructors and researchers working with inorganic solids in general *Handbook of Solid State Electrochemistry* P. J. Gellings, 2019-04-24 The Handbook of Solid State Electrochemistry is a one stop resource treating the two main areas of solid state electrochemistry electrochemical properties of solids such as oxides halides and cation conductors and electrochemical kinetics and mechanisms of reactions occurring on solid electrolytes including gas phase electrocatalysis The fund Solid State Electrochemistry I Vladislav V. Kharton, 2009-07-10 The only comprehensive handbook on this important and rapidly developing topic combines fundamental information with a brief overview of recent advances in solid state electrochemistry primarily targeting specialists working in this scientific field Particular attention is focused on the most important developments performed during the last decade methodological and theoretical aspects of solid state electrochemistry as well as practical applications The highly experienced editor has included chapters with critical reviews of theoretical approaches experimental methods and modeling techniques providing definitions and explaining relevant terminology as necessary Several other chapters cover all the key groups of the ion conducting solids important for practice namely cationic protonic oxygen anionic and mixed conductors but also conducting polymer and hybrid materials Finally the whole is rounded off by brief surveys of advances in the fields of fuel cells solid state batteries electrochemical sensors and other applications of ion conducting solids Due to the very interdisciplinary nature of this topic this is of great interest to material scientists polymer chemists physicists and industrial scientists too *Solid State Electrochemistry and*

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Handbook of Electrochemistry Cynthia G. Zoski, 2007-02-07 Electrochemistry plays a key role in a broad range of research and applied areas including the exploration of new inorganic and organic compounds biochemical and biological systems corrosion energy applications involving fuel cells and solar cells and nanoscale investigations The Handbook of Electrochemistry serves as a source of electrochemical information providing details of experimental considerations representative calculations and illustrations of the possibilities available in electrochemical

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