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| 1. Record Nr.           | UNISA996207164803316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | Impedance spectroscopy : theory, experiment, and applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pubbl/distr/stampa      | Hoboken, N.J., : Wiley-Interscience, c2005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Edizione                | [2nd ed. /]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Descrizione fisica      | 1 online resource (615 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Altri autori (Persone)  | BarsoukovEvgenij<br>MacdonaldJ. Ross <1923-> (James Ross)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disciplina              | 543/.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Impedance spectroscopy<br>Impedance spectroscopy - Experiments<br>Electrochemical analysis - Experiments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di bibliografia    | Includes bibliographical references (p. 541-581) and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nota di contenuto       | Impedance Spectroscopy; Contents; Preface; Preface to the First Edition; Contributors; Contributors to the First Edition; 1. Fundamentals of Impedance Spectroscopy; 1.1 Background, Basic Definitions, and History; 1.1.1 The Importance of Interfaces; 1.1.2 The Basic Impedance Spectroscopy Experiment; 1.1.3 Response to a Small-Signal Stimulus in the Frequency Domain; 1.1.4 Impedance-Related Functions; 1.1.5 Early History; 1.2 Advantages and Limitations; 1.2.1 Differences Between Solid State and Aqueous Electrochemistry; 1.3 Elementary Analysis of Impedance Spectra<br>1.3.1 Physical Models for Equivalent Circuit Elements1.3.2 Simple RC Circuits; 1.3.3 Analysis of Single Impedance Arcs; 1.4 Selected Applications of IS; 2. Theory; 2.1 The Electrical Analogs of Physical and Chemical Processes; 2.1.1 Introduction; 2.1.2 The Electrical Properties of Bulk Homogeneous Phases; 2.1.2.1 Introduction; 2.1.2.2 Dielectric Relaxation in Materials with a Single Time Constant; 2.1.2.3 Distributions of Relaxation Times; 2.1.2.4 Conductivity and Diffusion in Electrolytes; 2.1.2.5 Conductivity and Diffusion-a Statistical Description |

2.1.2.6 Migration in the Absence of Concentration Gradients; 2.1.2.7 Transport in Disordered Media; 2.1.3 Mass and Charge Transport in the Presence of Concentration Gradients; 2.1.3.1 Diffusion; 2.1.3.2 Mixed Electronic-Ionic Conductors; 2.1.3.3 Concentration Polarization; 2.1.4 Interfaces and Boundary Conditions; 2.1.4.1 Reversible and Irreversible Interfaces; 2.1.4.2 Polarizable Electrodes; 2.1.4.3 Adsorption at the Electrode-Electrolyte Interface; 2.1.4.4 Charge Transfer at the Electrode-Electrolyte Interface; 2.1.5 Grain Boundary Effects; 2.1.6 Current Distribution, Porous and Rough Electrodes-the Effect of Geometry; 2.1.6.1 Current Distribution Problems; 2.1.6.2 Rough and Porous Electrodes; 2.2 Physical and Electrochemical Models; 2.2.1 The Modeling of Electrochemical Systems; 2.2.2 Equivalent Circuits; 2.2.2.1 Unification of Impedance Responses; 2.2.2.2 Distributed Circuit Elements; 2.2.2.3 Ambiguous Circuits; 2.2.3 Modeling Results; 2.2.3.1 Introduction; 2.2.3.2 Supported Situations; 2.2.3.3 Unsupported Situations: Theoretical Models; 2.2.3.4 Unsupported Situations: Equivalent Network Models; 2.2.3.5 Unsupported Situations: Empirical and Semiempirical Models; 3. Measuring Techniques and Data Analysis; 3.1 Impedance Measurement Techniques; 3.1.1 Introduction; 3.1.2 Frequency Domain Methods; 3.1.2.1 Audio Frequency Bridges; 3.1.2.2 Transformer Ratio Arm Bridges; 3.1.2.3 Berberian-Cole Bridge; 3.1.2.4 Considerations of Potentiostatic Control; 3.1.2.5 Oscilloscopic Methods for Direct Measurement; 3.1.2.6 Phase-Sensitive Detection for Direct Measurement; 3.1.2.7 Automated Frequency Response Analysis; 3.1.2.8 Automated Impedance Analyzers; 3.1.2.9 The Use of Kramers-Kronig Transforms; 3.1.2.10 Spectrum Analyzers

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## Sommario/riassunto

A skillful balance of theoretical considerations and practical know-how. Backed by a team of expert contributors, the Second Edition of this highly acclaimed publication brings a solid understanding of impedance spectroscopy to students, researchers, and engineers in physical chemistry, electrochemistry, and physics. Starting with general principles, the book moves on to explain in detail practical applications for the characterization of materials in electrochemistry, semiconductors, solid electrolytes, corrosion, solid-state devices, and electrochemical power sources. The book covers all o

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|----|-------------------------|-----------------------------------------------------------------------------------------------|
| 2. | Record Nr.              | UNIORUON00321831                                                                              |
|    | Autore                  | NICEV, Aleksandar                                                                             |
|    | Titolo                  | Kosturskijat balgarsko-gracki recnik ot XVI vek / Aleksandar Nicev                            |
|    | Pubbl/distr/stampa      | Sofija, : Kliment Ochridski, 1987                                                             |
|    | Descrizione fisica      | 81 p. ; 22 cm.                                                                                |
|    | Disciplina              | 491.81                                                                                        |
|    | Soggetti                | Lingua bulgara - Dizionari                                                                    |
|    | Lingua di pubblicazione | Bulgaro                                                                                       |
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|    | Livello bibliografico   | Monografia                                                                                    |
| 3. | Record Nr.              | UNINA9910758800403321                                                                         |
|    | Autore                  | Gemma, Alessia                                                                                |
|    | Titolo                  | Il social media è il messaggio : teoria e tecnica del social media management / Alessia Gemma |
|    | Pubbl/distr/stampa      | Milano, : Meltelmi, 2023                                                                      |
|    | ISBN                    | 978-88-5519-842-4                                                                             |
|    | Descrizione fisica      | 126 p. ; 22 cm                                                                                |
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|    | Collocazione            | AZMK185A<br>COLLEZ. 3176 (195)                                                                |
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