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Autore	Salisbury Joyce E.
Titolo	Rome's Christian empress : Galla Placidia rules at the twilight of the empire / / Joyce E. Salisbury
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ISBN	1-4214-1701-4
Descrizione fisica	1 online resource (249 p.)
Classificazione	HIS002000REL000000LIT004190SOC028000
Disciplina	937/.09092
Soggetti	Empresses - Rome Regents - Rome Christians - Rome Rome History Valentinian III, 425-455 Rome History Empire, 284-476 Rome History Germanic Invasions, 3rd-6th centuries
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; List of Illustrations; Introduction. A Forgotten Empress; 1 The "Most Noble" Princess: 379-395; 2 Orphan Princess in Stilicho's Shadow: 395-408; 3 Held Hostage by the Goths: 408-412; 4 Queen of the Visigoths: 411-416; 5 Wife and Mother in Ravenna: 416-424; 6 Empress of the Romans: 424-437; 7 The Empress Mother and Her Children: 438-455; Epilogue. The Fall of the Western Empire: 455-476; Notes; Bibliography; Index; A; B; C; D; E; F; G; H; I; J; L; M; N; O; P; Q; R; S; T; U; V; W; Z
Sommario/riassunto	"In Rome's Christian Empress, Joyce E. Salisbury brings the captivating story of Rome's Christian empress to life. The daughter of Roman emperor Theodosius I, Galla Placidia lived at the center of imperial Roman power during the first half of the fifth century. Taken hostage after the fall of Rome to the Goths, she was married to the king and, upon his death, to a Roman general. The rare woman who traveled throughout Italy, Gaul, and Spain, she eventually returned to Rome, where her young son was crowned as the emperor of the western Roman provinces. Placidia served as his regent, ruling the Roman

	Empire and the provinces for twenty years. Salisbury restores this influential, too-often forgotten woman to the center stage of this crucial period. Describing Galla Placidia's life from childhood to death while detailing the political and military developments that influenced her--and that she influenced in turn--the book relies on religious and political sources to weave together a narrative that combines social, cultural, political, and theological history. The Roman world changed dramatically during Placidia's rule: the Empire became Christian, barbarian tribes settled throughout the West, and Rome began its unmistakable decline. But during her long reign, Placidia wielded formidable power. She fended off violent invaders and usurpers who challenged her Theodosian dynasty; presided over the dawn of the Catholic Church as theological controversies split the faithful and church practices and holidays were established; and spent fortunes building churches and mosaics that incorporated prominent images of herself and her family. Compulsively readable, Rome's Christian Empress is the first full-length work to give this fascinating and complex ruler her due"--

2.	Record Nr.	UNINA9910828600403321
	Autore	Rahn Christopher D (Christopher David)
	Titolo	Battery systems engineering / / Christopher D. Rahn and Chao-Yang Wang
	Pubbl/distr/stampa	Hoboken, : John Wiley & Sons Inc., 2013
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Nota di contenuto	BATTERY SYSTEMS ENGINEERING; Contents; Preface; 1 Introduction; 1.1 Energy Storage Applications; 1.2 The Role of Batteries; 1.3 Battery Systems Engineering; 1.4 A Model-Based Approach; 1.5 Electrochemical Fundamentals; 1.6 Battery Design; 1.7 Objectives of this Book; 2 Electrochemistry; 2.1 Lead-Acid; 2.2 Nickel-Metal Hydride; 2.3 Lithium-Ion; 2.4 Performance Comparison; 2.4.1 Energy Density and Specific Energy; 2.4.2 Charge and Discharge; 2.4.3 Cycle Life; 2.4.4 Temperature Operating Range; 3 Governing Equations; 3.1 Thermodynamics and Faraday's Law; 3.2 Electrode Kinetics 3.2.1 The Butler-Volmer Equation 3.2.2 Double-Layer Capacitance; 3.3 Solid Phase of Porous Electrodes; 3.3.1 Intercalate Species Transport; 3.3.2 Conservation of Charge; 3.4 Electrolyte Phase of Porous Electrodes; 3.4.1 Ion Transport; 3.4.2 Conservation of Charge; 3.4.3 Concentrated Solution Theory; 3.5 Cell Voltage; 3.6 Cell Temperature; 3.6.1 Arrhenius Equation; 3.6.2 Conservation of Energy; 3.7 Side Reactions and Aging; Problems; 4 Discretization Methods; 4.1 Analytical Method; 4.1.1 Electrolyte Diffusion; 4.1.2 Coupled Electrolyte-Solid Diffusion in Pb Electrodes 4.1.3 Solid-State Diffusion in Li-Ion and Ni-MH Particles 4.2 Pad Approximation Method; 4.2.1 Solid-State Diffusion in Li-Ion Particles; 4.3 Integral Method Approximation; 4.3.1 Electrolyte Diffusion; 4.3.2 Solid-State Diffusion in Li-Ion and Ni-MH Particles; 4.4 Ritz Method; 4.4.1 Electrolyte Diffusion in a Single Domain; 4.4.2 Electrolyte Diffusion in Coupled Domains; 4.4.3 Coupled Electrolyte-Solid Diffusion in Pb Electrodes; 4.5 Finite-Element Method; 4.5.1 Electrolyte Diffusion; 4.5.2 Coupled Electrolyte-Solid Diffusion in Li-Ion Electrodes; 4.6 Finite-Difference Method 4.6.1 Electrolyte Diffusion 4.6.2 Nonlinear Coupled Electrolyte-Solid Diffusion in Pb Electrodes; 4.7 System Identification in the Frequency Domain; 4.7.1 System Model; 4.7.2 Least-Squares Optimization Problem; 4.7.3 Optimization Approach; 4.7.4 Multiple Outputs; 4.7.5 System Identification Toolbox; 4.7.6 Experimental Data; Problems; 5 System Response; 5.1 Time Response; 5.1.1 Constant Charge/Discharge Current; 5.1.2 DST Cycle Response of the Pb-Acid Electrode; 5.2 Frequency Response; 5.2.1 Electrochemical Impedance Spectroscopy; 5.2.2 Discretization Efficiency; 5.3 Model Order Reduction 5.3.1 Truncation Approach 5.3.2 Grouping Approach; 5.3.3 Frequency-Response Curve Fitting; 5.3.4 Performance Comparison; Problems; 6 Battery System Models; 6.1 Lead-Acid Battery Model; 6.1.1 Governing Equations; 6.1.2 Discretization using the Ritz Method; 6.1.3 Numerical Convergence; 6.1.4 Simulation Results; 6.2 Lithium-Ion Battery Model; 6.2.1 Conservation of Species; 6.2.2 Conservation of Charge; 6.2.3 Reaction Kinetics; 6.2.4 Cell Voltage; 6.2.5 Linearization; 6.2.6 Impedance Solution; 6.2.7 FEM Electrolyte Diffusion; 6.2.8 Overall System Transfer Function 6.2.9 Time-Domain Model and Simulation Results
Sommario/riassunto	A complete all-in-one reference on the important interdisciplinary topic of Battery Systems Engineering Focusing on the interdisciplinary area of battery systems engineering, this book provides the background, models, solution techniques, and systems theory that are

necessary for the development of advanced battery management systems. It covers the topic from the perspective of basic electrochemistry as well as systems engineering topics and provides a basis for battery modeling for system engineering of electric and hybrid electric vehicle platforms.