1. Record Nr. UNINA9910528319003321

Autore	Steele Philip <1948->
Titolo	Analyzing oil production and consumption : asking questions, evaluating evidence, and designing solutions / / Philip Steele
Pubbl/distr/stampa	New York : , : Cavendish Square, , 2019 ©2017
ISBN	1-5026-3937-8
Edizione	[First edition.]
Descrizione fisica	1 online resource (48 pages) : illustrations
Disciplina	338.27282
Soggetti	Petroleum industry and trade Petroleum Energy consumption Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910132397203321

Autore	Bagotskii V. S (Vladimir Sergeevich)
Titolo	Electrochemical power sources : batteries, fuel cells, and supercapacitors / / Vladimir S. Bagotsky, Alexander M. Skundin, Yurij V. Volfkovich
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , 2015 ©2015
ISBN	1-5231-1064-3 1-118-94253-1 1-118-94251-5 1-118-94285-X
Descrizione fisica	1 online resource (815 p.)
Collana	Electrochemical Society Series
Altri autori (Persone)	VolfkovichYurij M. <1940->
Disciplina	621.31242
Soggetti	Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	""2.3 The Zinc Electrode in Alkaline Solutions""""2.4 Alkaline Manganesea€?Zinc Batteries""; ""2.5 Lead Acid Batteries""; ""2.6 Alkaline Nickel Storage Batteries""; ""2.7 Silvera€?Zinc Batteries""; ""References""; ""Monographs and Reviews""; ""Chapter 3: Performance""; ""3.1 Electrical Characteristics of Batteries""; ""3.2 Electrical Characteristics of Storage Batteries""; ""3.3 Comparative Characteristics""; ""3.4 Operational Characteristics""; ""References""; ""Chapter 4: Miscellaneous Batteries""; ""4.1 Mercurya€?Zinc Batteries""; ""4.2 Compound Batteries"" ""4.3 Batteries with Water as Reactant""""4.4 Standard Cells""; ""4.5 Reserve Batteries""; ""Reference""; ""Reviews and Monographs""; ""Chapter 5: Design and Technology""; ""5.1 Balance in Batteries""; ""5.2 Scale Factors""; ""5.3 Separators""; ""5.4 Sealing""; ""5.5 Ohmic Losses""; ""5.6 Thermal Processes in Batteries""; ""Chapter 6: Applications of Batteries""; ""6.1 Automotive Equipment Starter and Auxiliary Batteries""; ""6.2 Traction Batteries""; ""6.3 Stationary Batteries""; ""6.4 Domestic and Portable Systems""; ""6.5 Special Applications""; ""Chapter 7: Operational Problems"" ""7.1 Discharge and Maintenance of Primary Batteries""""7.2

		Maintenance of Storage Batteries""; ""7.3 General Aspects of Battery Maintenance""; ""Chapter 8: Outlook for Batteries with Aqueous Electrolyte""; ""References""; ""Part II: Batteries with Nonaqueous Electrolytes""; ""Chapter 9: Different Kinds of Electrolytes""; ""9.1 Electrolytes Based on Aprotic Nonaqueous Solutions""; ""9.2 Ionically Conducting Molten Salts""; ""9.3 Ionically Conducting Solid Electrolytes""; ""References""; ""Chapter 10: Insertion Compounds""; ""Monographs and Reviews""; ""Chapter 11: Primary Lithium Batteries"" ""11.1 General Information: Brief History""""""11.2 Current-Producing and Other Processes in Primary Power Sources""; ""11.3 Design of Primary Lithium Cells""; ""11.4 Fundamentals of the Technology of Manufacturing of Lithium Primary Cells""; ""11.5 Electric Characteristics of Lithium Cells""; ""11.6 Operational Characteristics of Lithium Cells""; ""11.7 Features of Primary Lithium Cells of Different Electrochemical Systems""; ""Monographs""; ""Chapter 12: Lithium Ion Batteries""; ""12.1 General Information: Brief History"" ""12.2 Current-Producing and Other Processes in Lithium Ion Batteries""

3.	Record Nr.	UNISA996466722003316
	Autore	Parkinson John B
	Titolo	An Introduction to Quantum Spin Systems [[electronic resource] /] / by John B. Parkinson, Damian J. J. Farnell
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
	ISBN	1-280-38212-0 9786613560032 3-642-13290-1
	Edizione	[1st ed. 2010.]
	Descrizione fisica	1 online resource (XI, 154 p. 22 illus.)
	Collana	Lecture Notes in Physics, , 0075-8450 ; ; 816
	Disciplina	539.7/25
	Soggetti	Quantum physics Solid state physics Quantum computers Spintronics Low temperature physics Low temperatures Phase transitions (Statistical physics) Quantum Physics Solid State Physics Quantum Information Technology, Spintronics Low Temperature Physics Phase Transitions and Multiphase Systems

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Spin Models -- Quantum Treatment of the Spin-½ Chain -- The Antiferromagnetic Ground State -- Antiferromagnetic Spin Waves -- The XY Model -- Spin-Wave Theory -- Numerical Finite-Size Calculations -- Other Approximate Methods -- The Coupled Cluster Method -- Quantum Magnetism.
Sommario/riassunto	The topic of lattice quantum spin systems is a fascinating and by now well-established branch of theoretical physics. However, many important questions remain to be answered. Their intrinsically quantum mechanical nature and the large (usually effectively infinite) number of spins in macroscopic materials often leads to unexpected or counter-intuitive results and insights. Spin systems are not only the basic models for a whole host of magnetic materials but they are also important as prototypical models of quantum systems. Low dimensional systems (as treated in this primer), in 2D and especially 1D, have been particularly fruitful because their simplicity has enabled exact solutions to be determined in many cases. These exact solutions contain many highly nontrivial features. This book was inspired by a set of lectures on quantum spin systems and it is set at a level of practical detail that is missing in other textbooks in the area. It will guide the reader through the foundations of the field. In particular, the solutions of the Heisenberg and XY models at zero temperature using the Bethe Ansatz and the Jordan-Wigner transformation are covered in some detail. The use of approximate methods, both theoretical and numerical, to tackle more advanced topics is considered. The final chapter describes some very recent applications of approximate methods in order to show some of the directions in which the study of these systems is currently developing.