

1. Record Nr.	UNINA9910794519303321
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Titolo	The enigmatic electron / / Ann Jones
Pubbl/distr/stampa	London, England : , : Austin Macauley Publishers, , [2021] ©2021
ISBN	1-5289-9627-5
Descrizione fisica	1 online resource (69 pages)
Disciplina	539.72112
Soggetti	Electrons Electronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Title Page -- About the Author -- Copyright Information © -- Acknowledgement -- Introduction -- Chapter 1 -- Discovery -- Chapter 2 -- Structure Of The Atom -- Bohr's Model of the Atom -- Further Development of the Bohr Model -- Chapter 3 -- The Periodic Table of the Elements -- The Transition Metals -- The Role of Neutrons -- Reactivity of the Elements -- Chapter 4 -- Wave-Particle Duality -- The Nature of Light -- The Nature of Electrons -- Electrons Behaving as Waves -- Chapter 5 -- Electrons as Particles -- Storing Charge -- Chapter 6 -- Elements and Compounds -- Metallic Structures -- The Ionic Bond -- The Covalent Bond -- Chapter 7 -- Electron Beams -- The Oscilloscope Tube -- The TV Tube -- Plasma TV -- The Transmission Electron Microscope -- The Scanning Electron Microscope -- Electron Beam Welding -- The Scanning Tunnelling Microscope (STM) -- Chapter 8 -- Electromagnetic Waves -- Chapter 9 -- Electric Current -- Alternating Current -- Electrolysis -- Explaining Semiconductors -- Doping -- Transistors -- Light-Emitting Diode (LED) -- Photodiode -- Chapter 10 -- Electricity and Magnetism -- Magnetic Effect of an Electric Current -- The Hall Effect -- Electromagnetic Induction -- Transformers -- Further Applications of Electromagnetic Induction -- Summary of Chapter 10 -- Summary -- References -- List Of Diagrams.

