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Nota di contenuto	Investigation of magnetized plasma sheath in the presence of non-extensive electrons and ionization source -- Study of Geometric Defects in a 1D Acoustic Band Gap Structure Formed by the

Combination of Closed and Opened Resonators -- Examination of Variables Affecting Electron Dose Calculation in Eclipse eMC -- Thermoelectric Properties of the Tetragonal Iron Antimonide FeSb2 as an Electrode Material for Li-ion Batteries -- Two types of bound states in the continuum in photonic comb structure -- I-shaped amplitude divider based on 1D photonic system -- Pressure-induced Electronic and Structural Properties in 1T-ZrS2 using Quantum ESPRESSO Code -- Topological Interface States in a One-Dimensional Mesoscopic Crystal using Su-Schrieffer-Heeger Model -- Investigation of the Effect of the Nitrogen on the band offset and the intersubband absorption coefficient of the GaNxAs1-x-ySby/GaSb quantum well structures -- Determination of the structural and optoelectronic properties of the tetragonal monochalcogenide TlS using Wien2k software -- Electron transport in a thickness-symmetric quantum well ZnO/ Zn1-XMgxO under the effect of a constant external electric field -- Optoelectronic Characterization of Exciton in Multilayered Quantum Dots for Light-Emitting Devices Applications: Incorporating Polaronic Contribution.

Sommario/riassunto

This book includes papers presented at the 4th International Conference on Electronic Engineering and Renewable Energy (ICEERE 2024), held in Saidia, Morocco, which focus on the application of artificial intelligence techniques, emerging technology, and the Internet of things in electrical and renewable energy systems, including hybrid systems, micro-grids, networking, smart health applications, smart grid, mechatronics, and electric vehicles. It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro-Mediterranean region. Given its scope, the book is of interest to graduate students, researchers, and practicing engineers working in the fields of electronic engineering and renewable energy. The book represents Volume 2 for this conference proceedings, which consists of a 2-volume book series.