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Nota di contenuto	Modeling and analyze of an Energy Recovery System (ERS) to Transform of Sea Waves Kinetic energy into Electrical Energy -- Accurate dynamic modelling for monitoring of a grid-connected PV system under LabVIEW -- Sliding Mode Control based on Exponential Reaching Law applied on a Fivephase Permanent Magnet Synchronous Generator based Wind System -- Indirect Field Oriented Control And Synergetic Control Of Doubly Fed Induction Generator-Comparative study -- Storage management algorithm of a PV system -- Energy management of PV/WT/Battery hybrid power system using flatness-based control --

Solar radiation measurements in the Adrar region of Algeria: radiometric stations, statistics, and comparison with MERRA2 data -- Estimation of solar radiation on the ground from Meteosat satellite images and different models: case of the Ghardaïa region -- Fuzzy Logic control strategy for a grid-connected wind system with a battery energy storage -- Impact of distribution generation on transient stability with PSAT -- Ageing Impact on Reliability and Components Importance of an NPP's Emergency Power Supply Model.

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Sommario/riassunto

This book gathers papers presented during the 5th International Conference on Electrical Engineering and Control Applications (ICEECA 2022), held on November, 15–17, 2022, Khenchela, Algeria. It covers new control system models, troubleshooting tips, and complex system requirements, such as increased speed, precision, and remote capabilities. Additionally, the book discusses not only the engineering aspects of signal processing and various practical issues in the broad field of information transmission, but also novel technologies for communication networks and modern antenna design. The later part of the book covers important related topics such as fault diagnosis and fault-tolerant control strategies for nonlinear systems and alternative energy sources. This book is intended for researchers, engineers, and advanced postgraduate students in the fields of control and electrical engineering, computer science, signal processing, as well as mechanical and chemical engineering.

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