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Sommario/riassunto	This book gathers papers presented during the 6th International Conference on Electrical Engineering and Control Applications (ICEECA 2024), held on November, 19–21, 2024, 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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