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Sommario/riassunto

Henri Bourlès' 'System Theory – A Modern Approach 1: Linear Ordinary

and Functional Differential Equations' provides a comprehensive exploration of system theory, focusing on mathematical methods and their applications. The book delves into key concepts such as transfer functions, state-space systems, and algebraic analysis, offering a historical overview and modern insights into system theory. It discusses the stability, observability, and control of linear systems using various mathematical approaches, including geometric and algebraic methods. Intended for researchers, students, and professionals in engineering and applied mathematics, the book aims to enhance understanding and application of system theory in complex systems.