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Chapter 5 Systems of Linear Functional Equations 21 Systems in Which Each Equation Contains All Unknown Functions; 22 Systems in Which Not All Equations Contain All Unknown Functions; PART 2 Nonlinear Complex Vector Functional Equations; Chapter 6 Quadratic Functional Equations; 23 Simple Quadratic Functional Equation; 24 Special Quadratic Functional Equation; Chapter 7 Modified Quadratic Functional Equations; 25 Basic Quadratic Functional Equation; 26 Permuted Quadratic Functional Equation; 27 First Modified Quadratic Functional Equation; 28 Second Modified Quadratic Functional Equation; 29 Third Modified Quadratic Functional Equation; Chapter 8 Expanded Quadratic Functional Equations; 30 Expanded Quadratic Functional Equations with Functional Arguments; 31 Expanded Quadratic Functional Equations with the Same Signs between the Functions; 32 Expanded Quadratic Functional Equation with Alternating Signs between the Functions; 33 Generalized Quadratic Functional Equation; Chapter 9 Higher Order Functional Equations; 34 Higher Order Functional Equation without Parameters; 35 Higher Order Functional Equation with Complex Parameters; 36 Nonlinear Operator Functional Equation; Chapter 10 Systems of Nonlinear Functional Equations 37 Systems of Quadratic Functional Equations; 38 Systems of Higher Order Functional Equations; Bibliography; Index

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Sommario/riassunto

The subject of complex vector functional equations is a new area in the theory of functional equations. This monograph provides a systematic overview of the authors' recently obtained results concerning both linear and nonlinear complex vector functional equations, in all aspects of their utilization. It is intended for mathematicians, physicists and engineers who use functional equations in their investigations. Contents: Linear Complex Vector Functional Equations: General Classes of Cyclic Functional Equations; Functional Equations with Operations Between Arguments; Functional Equations with

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