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Autore	Kozlov Vladimir <1954->
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Nota di contenuto	Basic equation with constant coefficients -- The operator M(? t) on a semiaxis and an interval -- The operator M(? t)??0 with constant ?0 -- Green's function for the operator M(? t)??(t) -- Uniqueness and solvability properties of the operator M(? t ??(t) -- Properties of M(? t ??(t) under various assumptions about ?(t) -- Asymptotics of solutions at infinity -- Application to ordinary differential equations with operator coefficients.
Sommario/riassunto	This book develops a detailed theory of a generalized Sturm-Liouville Equation, which includes conditions of solvability, classes of uniqueness, positivity properties of solutions and Green's functions, asymptotic properties of solutions at infinity. Of independent interest, the higher-order Sturm-Liouville equation also proved to have important applications to differential equations with operator coefficients and elliptic boundary value problems for domains with non-smooth boundaries. The book addresses graduate students and researchers in ordinary and partial differential equations, and is accessible with a standard undergraduate course in real analysis.