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	Autore	Zettl Anton
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	Nota di contenuto	Frontmatter -- Introduction -- Contents -- Part I: One-interval problems -- 1 Classical regular self-adjoint problems -- 2 Periodic coefficients -- 3 Extensions of the classical problem -- 4 Finite spectrum -- 5 Inverse Sturm-Liouville problems with finite spectrum -- 6 Eigenvalues below the essential spectrum -- 7 Spectral parameter in the boundary conditions -- Part II: Two-interval problems -- 8 Discontinuous boundary conditions -- 9 The Green's and characteristic functions -- 10 The Legendre equation and its operators -- A Notation -- B Open problems -- Bibliography -- Index
	Sommario/riassunto	This book provides a modern survey of some basic properties of Sturm-Liouville problems and to bring the reader to the forefront of knowledge of some areas of the theory. For example, some special Sturm-Liouville eigenvalue problems are equivalent to certain Jacobi and cyclic Jacobi matrix eigenvalue problems. A new approach to problems with periodic conditions is developed.