Librería

Bonilla y Asociados

desde 1950





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In this monograph the author develops the spectral theory for an \$n\$th order two-point differential operator \$L\$ in the Hilbert space L2[0,1], where \$L\$ is determined by an \$n\$th order formal differential operator \$\ext{ell}\$ having variable coefficients and by \$n\$ linearly independent boundary values \$B 1, \ldots, B n\$. Using the Birkhoff approximate solutions of the differential equation \$(\rhon I - \ell)u = 0\$, the differential operator \$L\$ is classified as belonging to one of three possible classes: regular, simply irregular, or degenerate irregular. For the regular and simply irregular classes, the author develops asymptotic expansions of solutions of the differential equation \$(\rhon I - \ell)u = 0\$, constructs the characteristic determinant and Green's function, characterizes the eigenvalues and the corresponding algebraic multiplicities and ascents, and shows that the generalized eigenfunctions of \$L\$ are complete in \$L2[0,1]\$. He also gives examples of degenerate irregular differential operators illustrating some of the unusual features of this class.

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