## <sup>Librería</sup> Bonilla y Asociados





## Título: Eigenvalues And Completeness For Regular And Simply Irregular Two-Point Differen

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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  $L^{[0,1]}$ , where L is determined by an nth order formal differential operator  $\parallel 1$  having variable coefficients and by n linearly independent boundary values B 1,  $1 \to 0$ , 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 - 1) = 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  $L^{[0,1]}$ . He also gives examples of degenerate irregular differential operators illustrating some of the unusual features of this class.