

Librería  
**Bonilla y Asociados**  
desde 1950



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

**Autor:** Locker John

**Precio:** \$901.70

**Editorial:**

**Año:** 2008

**Tema:**

**Edición:** 1<sup>a</sup>

**Sinopsis**

**ISBN:** 9780821841716

In this monograph the author develops the spectral theory for an  $n$ th order two-point differential operator  $L$  in the Hilbert space  $L^2[0,1]$ , where  $L$  is determined by an  $n$ th order formal differential operator  $\ell$  having variable coefficients and by  $n$  linearly independent boundary values  $B_1, \dots, B_n$ . Using the Birkhoff approximate solutions of the differential equation  $(\rho I - \ell)u = 0$ , 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  $(\rho I - \ell)u = 0$ , 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  $L^2[0,1]$ . He also gives examples of degenerate irregular differential operators illustrating some of the unusual features of this class.