

*Librería*  
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**Título:**

**Autor:**

**Precio:** \$1840.00

**Editorial:**

**Año:** 2006

**Tema:**

**Edición:** 1<sup>a</sup>

**Sinopsis**

**ISBN:** 0849319692

Cho's (Korea Advanced Institute of Science and Technology) introductory text describes how optical, mechanical, electronic, and computer engineering technologies have been integrated to form a new field, optomechatronic technology, and how this approach can be used to create new and added value and function for the engineering systems under consideration. The text covers the fundamentals and underlying concepts of the field, using a variety of practical system examples adopting optomechatronic principles, including discussion of optics, machine vision, fundamentals of mechatronics, feedback control, and some application aspects of micro-opto-electro-mechanical system. For advanced undergraduate students, graduate students, and academic and industrial researchers.