## Librería Bonilla y Asociados





## Título: Lattices And Codes

Autor: Ebeling, Wolfgang	<b>Precio:</b> \$986.51
Editorial:	<b>Año:</b> 2013
Tema:	<b>Edición:</b> 1 <sup>a</sup>
Sinopsis	<b>ISBN:</b> 9783658003593
Master course on the relationship between coding theory and the theory of integral lattices The purpose of coding theory is the design of efficient systems for the transmission of information. The mathematical treatment leads to certain finite structures: the error-correcting codes. Surprisingly problems which are interesting for the design of codes turn out to be closely related to problems studied partly earlier and independently	
presented. The relation between lattices studied in number the error-correcting codes is discussed. The book provides at the same ti theory of integral lattices and modular forms and to coding theory.	bry and geometry and me an introduction to the

In the 3rd edition, again numerous corrections and improvements have been made and the text has been updated.

## Content

Lattices and Codes -Theta Functions and Weight Enumerators - Even Unimodular Lattices - The Leech Lattice - Lattices over Integers of Number Fields and Self-Dual Codes.

Readership Graduate Students in Mathematics and Computer Science Mathematicians and Computer Scientists

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Content Level » Graduate

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Keywords » Leech lattice - modular forms - self-dual codes - theta functions - unimodular lattices - weight enumerators

Related subjects » Algebra - Mathematik