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Título: Atiyah-Singer Index Theorem: An Introduction

Autor: Amiya Mukherjee   **Precio:** Desconocido

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This monograph is a thorough introduction to the Atiyah-Singer index theorem for elliptic operators on compact manifolds without boundary. The main theme is only the classical index theorem and some of its applications, but not the subsequent developments and simplifications of the theory.

The book is designed for a complete proof of the K-theoretic index theorem and its representation in terms of cohomological characteristic classes. In an effort to make the demands on the reader's knowledge of background materials as modest as possible, the author supplies the proofs of almost every result. The applications include Hirzebruch signature theorem, Riemann-Roch-Hirzebruch theorem, and the Atiyah-Segal-Singer fixed point theorem, etc.

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Readership

Graduate students and research mathematicians interested in K-theoretic index theorem.

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