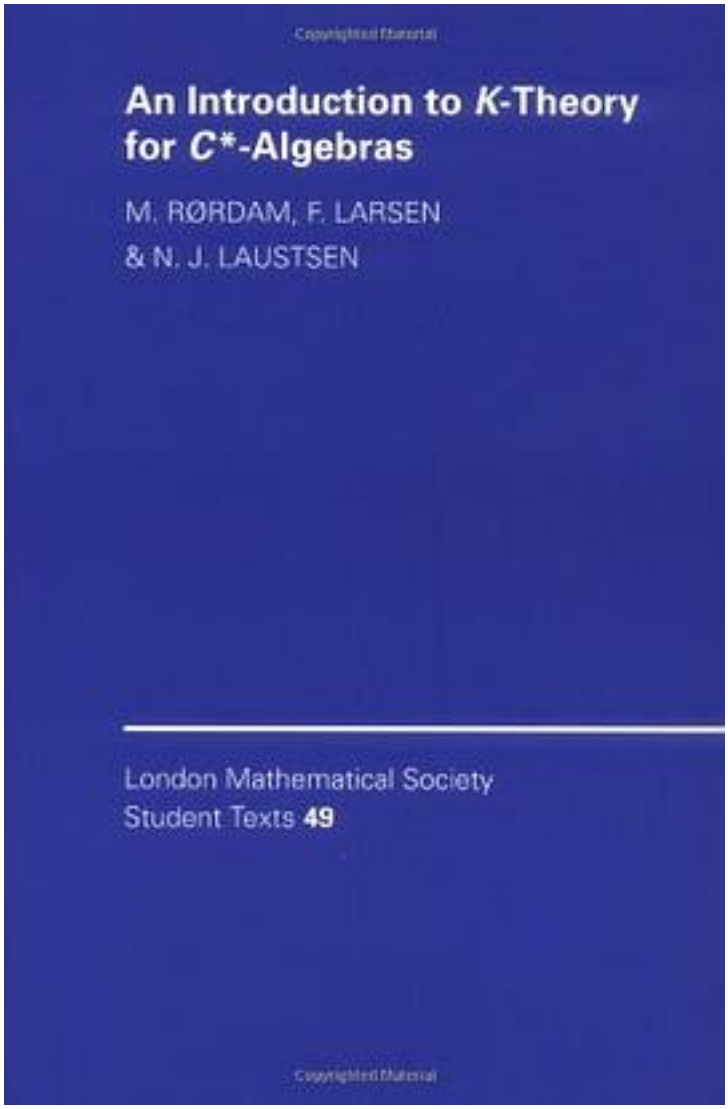
# An Introduction to K-Theory for C*-Algebras

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Over the last 25 years K-theory has become an integrated part of the study of C*-algebras. This book gives an elementary introduction to this interesting and rapidly growing area of mathematics. Fundamental to K-theory is the association of a pair of Abelian groups, K0(A) and K1(A), to each C*-algebra A. These groups reflect the properties of A in many ways. This book covers the basic properties of the functors K0 and K1 and their interrelationship. Applications of the theory include Elliott's classification theorem for AF-algebras, and it is shown that each pair of countable Abelian groups arises as the K-groups of some C*-algebra. The theory is well illustrated with 120 exercises and examples, making the book ideal for beginning graduate students working in functional analysis, especially operator algebras, and for researchers from other areas of mathematics who want to learn about this subject.

作者介绍:

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## 标签

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K-理论

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## 评论

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# 书评

在C*-代数的K-理论中，K_0群理论占据着相当大的比重，特别是加上序结构之后，可以对AF-代数这样简单的C*-代数进行完全分类，这就是Elliott分类定理，它为其他类似AF-代数的C*-代数的分类研究提供了模板。
约定：无特别声明时，本文中C*-代数均带单位元。 有序K_...

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