



# An Introduction to K-Theory for $C^*$ -Algebras (London Mathematical Society Student Texts)

*M. Rørdam, F. Larsen, N. Laustsen*

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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,  $K_0(A)$  and  $K_1(A)$ , to each C\*-algebra  $A$ . These groups reflect the properties of  $A$  in many ways. This book covers the basic properties of the functors  $K_0$  and  $K_1$  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.

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