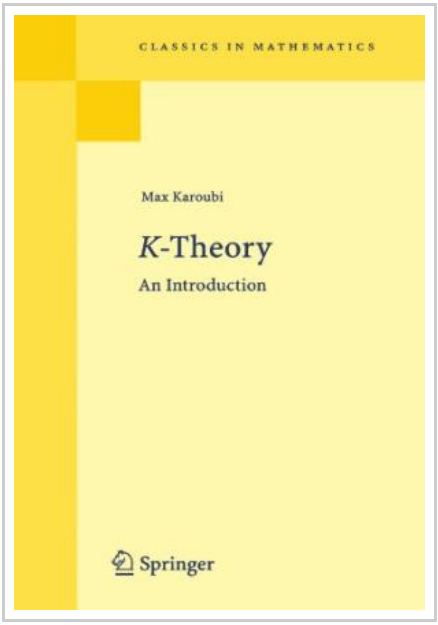


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K-Theory: An Introduction

By Max Karoubi

Springer. Paperback. Book Condition: New. Paperback. 310 pages. Dimensions: 9.3in. x 6.1in. x 0.9in.AT-theory was introduced by A. Grothendieck in his formulation of the Riemann- Roch theorem (cf. Borel and Serre 2). For each projective algebraic variety, Grothendieck constructed a group from the category of coherent algebraic sheaves, and showed that it had many nice properties. Atiyah and Hirzebruch 3 considered a topological analog defined for any compact space X, a group KX) constructed from the category of vector bundles on X. It is this topological J-theory that this book will study. Topological -theory has become an important tool in topology. Using- theory, Adams and Atiyah were able to give a simple proof that the only spheres which can be provided with -space structures are S, S and S. Moreover, it is possible to derive a substantial part of stable homotopy theory from A-theory (cf. J. F. Adams 2). Further applications to analysis and algebra are found in the work of Atiyah-Singer 2, Bass 1, Quillen 1, and others. A key factor in these applications is Bott periodicity (Bott 2). The purpose of this book is to provide advanced students and mathematicians in other fields with the fundamental material...

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