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## The Local Structure of Algebraic K-Theory (Hardback)

By Bjorn Ian Dundas, Randy McCarthy, Tom Goodwillie

Springer London Ltd, United Kingdom, 2012. Hardback. Book Condition: New. 2012 ed.. 242 x 162 mm. Language: English . Brand New Book. Algebraic K-theory encodes important invariants for several mathematical disciplines, spanning from geometric topology and functional analysis to number theory and algebraic geometry. As is commonly encountered, this powerful mathematical object is very hard to calculate. Apart from Quillen's calculations of finite fields and Suslin's calculation of algebraically closed fields, few complete calculations were available before the discovery of homological invariants offered by motivic cohomology and topological cyclic homology. This book covers the connection between algebraic K-theory and Bokstedt, Hsiang and Madsen's topological cyclic homology and proves that the difference between the theories are locally constant . The usefulness of this theorem stems from being more accessible for calculations than K-theory, and hence a single calculation of K-theory can be used with homological calculations to obtain a host of nearby calculations in K-theory. For instance, Quillen's calculation of the K-theory of finite fields gives rise to Hesselholt and Madsen's calculations for local fields, and Voevodsky's calculations for the integers give insight into the diffeomorphisms of manifolds. In addition to the proof of the...



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