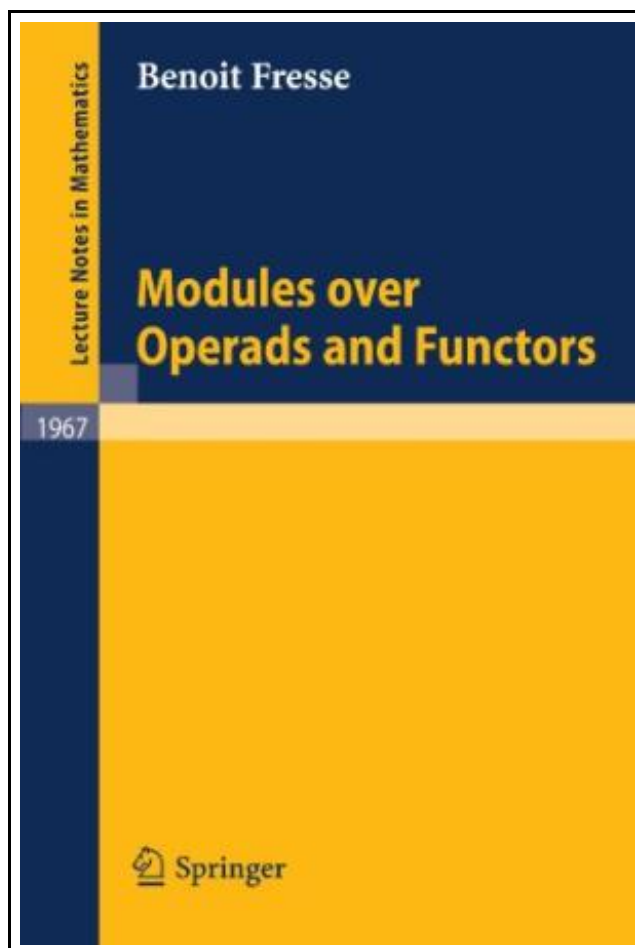


Modules over Operads and Functors



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Reviews

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(Bernardo Feeney Jr.)

MODULES OVER OPERADS AND FUNCTORS



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Springer-Verlag GmbH Mrz 2009, 2009. Taschenbuch. Book Condition: Neu. 235x155x17 mm. Neuware - The notion of an operad was introduced 40 years ago in algebraic topology in order to model the structure of iterated loop spaces [6, 47, 60]. Since then, operads have been used fruitfully in many fields of mathematics and physics. Indeed, the notion of an operad supplies both a conceptual and effective device to handle a variety of algebraic structures in various situations. Many usual categories of algebras (like the category of commutative and associative algebras, the category of associative algebras, the category of Lie algebras, the category of Poisson algebras, ...) are associated to operads. The main successful applications of operads in algebra occur in deformation theory: the theory of operads unifies the construction of deformation complexes, gives generalizations of powerful methods of rational homotopy, and brings to light deep connections between the cohomology of algebras, the structure of combinatorial polyhedra, the geometry of moduli spaces of surfaces, and conformal field theory. The new proofs of the existence of deformation-quantizations by Kontsevich and Tamarkin bring together all these developments and lead Kontsevich to the fascinating conjecture that the motivic Galois group operates on the space of deformation-quantizations (see [35]). The purpose of this monograph is to study not operads themselves, but modules over operads as a device to model functors between categories of algebras as effectively as operads model categories of algebras. Modules over operads occur naturally when one needs to represent universal complexes associated to algebras over operads (see [14, 54]). Modules over operads have not been studied as extensively as operads yet. 314 pp. English.



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