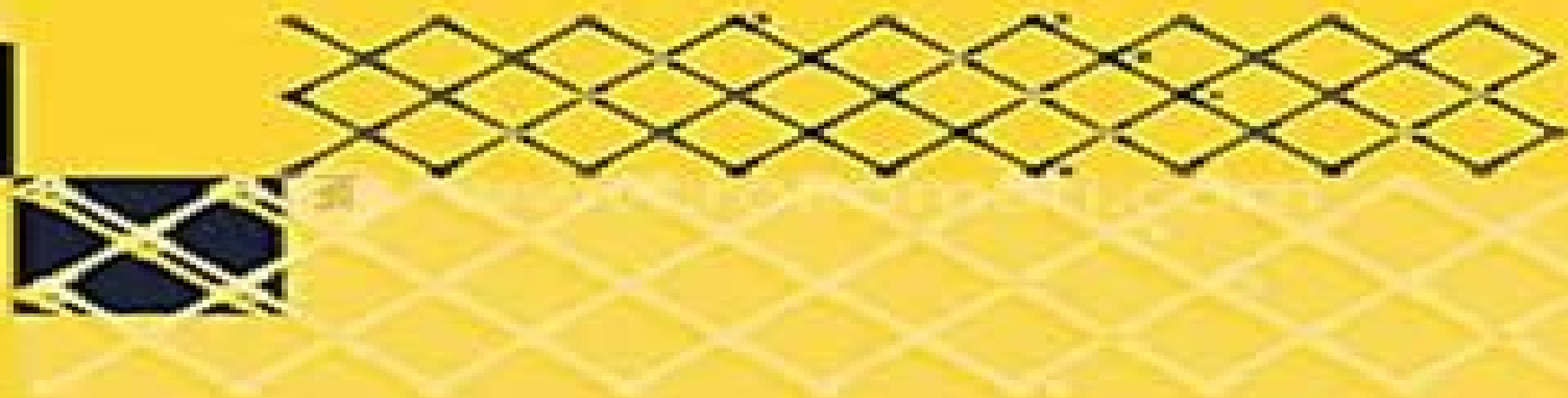


# Representations of Finite-Dimensional Algebras

Peter Gabriel  
Andrei V. Roiter



Springer

# Representations Of Finitedimensional Algebras

**Peter Gabriel, Andrei V. Roiter**



## **Representations Of Finitedimensional Algebras:**

*Representations of Finite Dimensional Algebras* Hiroyuki Tachikawa, Vlastimil Dlab, Canadian Mathematical Society, 1991  
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**Trends in the Representation Theory of Finite Dimensional Algebras**, 1998 **Finite Dimensional Algebras** Yurj A. Drozd, Vladimir V. Kirichenko, 2012-12-06 This English edition has an additional chapter Elements of Homological Algebra Homological methods appear to be effective in many problems in the theory of algebras we hope their inclusion makes this book more complete and self contained as a textbook We have also taken this occasion to correct several inaccuracies and errors in the original Russian edition We should like to express our gratitude to V Dlab who has not only meticulously translated the text but has also contributed by writing an Appendix devoted to a new important class of algebras viz quasi hereditary algebras Finally we are indebted to the publishers Springer Verlag for enabling this book to reach such a wide audience in the world of mathematical community Kiev February 1993 Yu A Drozd V V Kirichenko Preface The theory of finite dimensional algebras is one of the oldest branches of modern algebra Its origin is linked to the work of Hamilton who discovered the famous algebra of quaternions and Cayley who developed matrix theory Later finite dimensional algebras were studied by a large number of mathematicians including B Peirce C S Peirce Clifford Weierstrass Dedekind Jordan and Frobenius At the end of the last century T Molien and E Cartan described the semisimple algebras over the complex and real

fields and paved the first steps towards the study of non semi simple algebras Homological Invariants in the Representation Theory of Finite Dimensional Algebras Thomas Troy Howard, 2011 A lattice valued version of complexity is introduced for finitely generated representations of finite dimensional algebras which measures the dimension growth of their syzygies The spectrum of complexities over a finite dimensional algebra is shown to be invariant under derived equivalences in many instances Directed graphs called syzygy quivers are used to explicitly compute complexity for representations of monomial algebras and to confirm that the spectrum of complexities of a monomial algebra is a derived invariant Relative complexity spectra are used to show that this complexity spectrum is a derived invariant for any finite dimensional algebra which satisfies certain translation invariance properties Examples of such algebras include Gorenstein algebras local algebras and commutative algebras no example is known of an algebra which lacks this property

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