

## Basic Commutative Algebra By Balwant Singh

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An A-algebra B is said to be commutative if the ring B is commutative. Let  $\varphi : A \rightarrow B$  be an A-algebra. Then B becomes an A-module via  $\varphi$ , i.e. with scalar multiplication given by  $a \cdot b = \varphi(a)b$  for  $a \in A, b \in B$ . Let 1B denote the multiplicative identity of the ring B, to distinguish it from the multiplicative identity 1 of A.

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Let m be the ideal consisting of all nonunits. Since  $0 \notin m, 0$  is a nonunit, so  $1 \notin m$ , and it follows that the ideal m is proper. Now, if b is any proper ideal of A then all elements of b are nonunits, so  $b \subseteq m$ . Thus all proper ideals are contained in m, so m is the unique maximal ideal of A.

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In a relatively short time, commutative algebra has grown in many directions. Over a period of nearly fifty years starting from the so-called homological period till today, the area has developed into a rich laboratory of methods, structures and problem-solving tools. One could say a distinct modern trend of commutative algebra is a strong interaction with various aspects of Combinatorics and Computer Algebra. This has resulted in a new sense of measuring for old assumptions, and a better understanding of old results. At the same time, Invariant Theory and Algebraic Geometry remain constituents of an everlasting classical source, responsible for important themes that have been developed in Commutative Algebra — such as deformation, linkage, algebraic tori and determinantal rings, etc. This volume of proceedings is well-entrenched on the lines of development outlined above. As such, it aims to keep researchers and mathematicians well-informed of the developments in the field.

The first Joint AMS-India Mathematics Meeting was held in Bangalore (India). This book presents articles written by speakers from a special session on commutative algebra and algebraic geometry. Included are contributions from some leading researchers around the world in this subject area. The volume contains new and original research papers and survey articles suitable for graduate students and researchers interested in commutative algebra and algebraic geometry.

Multiplicative invariant theory, as a research area in its own right within the wider spectrum of invariant theory, is of relatively recent vintage. The present text offers a coherent account of the basic results achieved thus far. Multiplicative invariant theory is intimately tied to integral representations of finite groups. Therefore, the field has a predominantly discrete, algebraic flavor. Geometry, specifically the theory of algebraic groups, enters through Weyl groups and their root lattices as well as via character lattices of algebraic tori. Throughout the text, numerous explicit examples of multiplicative invariant algebras and fields are presented, including the complete list of all multiplicative invariant algebras for lattices of rank 2. The book is intended for graduate and postgraduate students as well as researchers in integral representation theory, commutative algebra and, mostly, invariant theory.