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An Introduction to Commutative Algebra and Number Theory is an elementary introduction to these subjects. Beginning with a concise review of groups, rings and fields, the author presents topics in algebra from a

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distinctly number-theoretic perspective and sprinkles number theory results throughout his presentation. The topics in algebra include polynomial rings, UFD, PID, and Euclidean domains; and field extensions, modules, and Dedekind domains. In the section on number theory, in addition to covering elementary

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congruence results, the laws of quadratic reciprocity and basics of algebraic number fields, this book gives glimpses into some deeper aspects of the subject. These include Warning's and Chevally's theorems in the finite field sections, and many results of additive number theory, such as the derivation of LaGrange's four-square

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theorem from

Minkowski's result in the geometry of numbers.

With addition of remarks and comments and with references in the bibliography, the author stimulates readers to explore the subject beyond the scope of this book.

This book can be understood as a model

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for teaching
commutative algebra,
and takes into account
modern developments
such as algorithmic and
computational aspects.

As soon as a new concept
is introduced, the authors
show how the concept
can be worked on using a
computer. The
computations are
exemplified with the
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Singular, developed by the authors. Singular is a special system for polynomial computation with many features for global as well as for local commutative algebra and algebraic geometry. The book includes a CD containing Singular as well as the examples and procedures explained in the book.

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There is no shortage of books on Commutative Algebra, but the present book is different. Most books are monographs, with extensive coverage. There is one notable exception: Atiyah and Macdonald ' s 1969 classic. It is a clear, concise, and efficient textbook, aimed at beginners, with a good selection of topics. So it

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has remained popular.

However, its age and flaws do show. So there is need for an updated and improved version, which the present book aims to be.

- Contains many examples and problems (with hints) - Provides a good introduction for beginners in algebraic number theory and

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For those looking for an introduction to the area of commutative algebra, this book opens all the right doors and provides a clarity of understanding that all will welcome.

Algebraic geometry is a fascinating branch of mathematics that combines methods from

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both, algebra and geometry. It transcends the limited scope of pure algebra by means of geometric construction principles. Moreover, Grothendieck ' s schemes invented in the late 1950s allowed the application of algebraic-geometric methods in fields that formerly seemed to be far away from geometry, like

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algebraic number theory.

The new techniques paved the way to spectacular progress such as the proof of Fermat's Last Theorem by Wiles and Taylor. The scheme-theoretic approach to algebraic geometry is explained for non-experts. More advanced readers can use the book to broaden their view on the subject. A separate

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part deals with the necessary prerequisites from commutative algebra. On a whole, the book provides a very accessible and self-contained introduction to algebraic geometry, up to a quite advanced level. Every chapter of the book is preceded by a motivating introduction with an informal discussion of the

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contents. Typical examples and an abundance of exercises illustrate each section.

This way the book is an excellent solution for learning by yourself or for complementing knowledge that is already present. It can equally be used as a convenient source for courses and seminars or as supplemental literature.

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Originally published in
1985, this classic

textbook is an English
translation of

Einführung in die
kommutative Algebra
und algebraische

Geometrie. As part of the
Modern Birkhäuser

Classics series, the
publisher is proud to

make Introduction to
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and Algebraic Geometry
available to a wider
audience. Aimed at
students who have taken
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present important results
concerning the
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algebraic varieties as
intersections of the least
possible number of
hypersurfaces and—a
closely related

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problem—with the most economical generation of ideals in Noetherian rings. Along the way, one encounters many basic concepts of commutative algebra and algebraic geometry and proves many facts which can then serve as a basic stock for a deeper study of these subjects.

This introductory

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account of commutative algebra is aimed at advanced

undergraduates and first year graduate students.

Assuming only basic abstract algebra, it provides a good foundation in commutative ring theory, from which the reader can proceed to more advanced works in commutative algebra and

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algebraic geometry. The style throughout is rigorous but concrete, with exercises and examples given within chapters, and hints provided for the more challenging problems used in the subsequent development. After reminders about basic material on commutative rings, ideals and modules are extensively discussed,

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with applications including to canonical forms for square matrices. The core of the book discusses the fundamental theory of commutative Noetherian rings. Affine algebras over fields, dimension theory and regular local rings are also treated, and for this second edition two further chapters, on regular sequences and

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Cohen – Macaulay rings, have been added. This book is ideal as a route into commutative algebra.

This introduction to polynomial rings, Gröbner bases and applications bridges the gap in the literature between theory and actual computation. It details numerous

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Commutative Algebra and Applications, covering fields as disparate as algebraic geometry and financial markets. To aid in a full understanding of these applications, more than 40 tutorials illustrate how the theory can be used. The book also includes many exercises, both theoretical and practical.

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