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Tom Judson's Abstract Algebra: Theory and Applications is an open source textbook designed to teach the principles and theory of abstract algebra to college juniors and seniors in a

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rigorous manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many nontrivial applications.

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This text is intended for a one- or two-semester undergraduate course in abstract algebra. Traditionally, these courses have covered the theoretical aspects of groups, rings, and fields.

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theoretical, plus many non-trivial applications.

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applications of abstract algebra. A basic knowledge of set theory, mathematical induction, equivalence relations, and matrices is a must. Even more important

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is the ability to read and understand mathematical proofs. In this chapter we will outline the background needed for a course in abstract algebra. 1.1 A Short Note on Proofs Abstract mathematics is different from other sciences.

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Sage is an open-source program for doing mathematics and is the ideal companion to Abstract Algebra: Theory and Applications. Sage is designed to be a free, open source alternative to Magma, Maple, Mathematica and Matlab. It includes many mature and powerful open-source tools for mathematics, such as GAP for group

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subject of abstract algebra and no student should go through such a course without a good notion of what a proof is,

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the importance of applications such as coding theory and cryptography has grown significantly. Until recently most abstract algebra texts included few if any applications.

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8 Algebraic Coding Theory. Error-

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Detecting and Correcting Codes; Linear Codes; Parity-Check and Generator Matrices; Efficient Decoding; Exercises; Programming Exercises; References and Suggested Readings; Sage; Sage Exercises; 9 Isomorphisms. Definition and Examples; Direct Products; Exercises; Sage; Sage Exercises; 10 Normal Subgroups and Factor Groups

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AATA Front Matter - Abstract Algebra: Theory and ...

Though theory still occupies a central role in the subject of abstract algebra and no student should go through such a course without a good notion of what a proof is, the importance of applications such as coding theory and cryptography

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has grown significantly. Until recently most abstract algebra texts included few if any applications.

Abstract Algebra

Rings are then covered and the book winds up with vector spaces and fields. All about what you'd expect, but the applications are there, especially to

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cryptology, and advanced stuff (think Galois and the like) is introduced. The problems range from pure exercises to serious challenge, and some solutions are available. The writing is good.

Abstract Algebra: Theory and Applications: Judson, Thomas ...

Including many computer exercises,

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which is very helpful, since in modern world, you almost can't avoid writing programs in an office job. Writing math program is a good way to train you logic, and an easy start because you don't need to know many protocols or interfaces. Besides, abstract algebra itself is very important in computer science.

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Abstract Algebra: Theory and Applications: Thomas W Judson ...

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Cosets and Lagrange's Theorem,
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Applications. Because of its generality,

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abstract algebra is used in many fields of mathematics and science. For instance, algebraic topology uses algebraic objects to study topologies. The Poincaré conjecture, proved in 2003, asserts that the fundamental group of a manifold, which encodes information about connectedness, can be used to determine whether a manifold is a

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sphere or not.

Abstract algebra - Wikipedia

Abstract Algebra: Applications to Galois Theory, Algebraic Geometry and Cryptography. Celine Carstensen, Benjamin Fine, and Gerhard Rosenberger. ... This group theory material is then applied to field theory in

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the next three chapters, which talk about Galois theory and its applications (including a second proof of the Fundamental Theorem of ...

Abstract Algebra: Applications to Galois Theory, Algebraic ...

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one- or two-semester undergraduate course in abstract algebra. Topics covered includes: The Integers, Groups, Cyclic Groups, Permutation Groups, Cosets and Lagrange's Theorem, Algebraic Coding Theory, Isomorphisms, Normal Subgroups and Factor Groups, Matrix Groups and ...

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