

# Applied Abstract Algebra



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著者:Chris Godsil

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With a clear focus on compulsory algebra for undergraduates, Applied Abstract Algebra includes many significant and exciting applications. The author addresses the key topics in algebra while leaving out topics usually covered in advanced courses. This tradeoff allows the book to cover more interesting and realistic applications. The core set of examples and applications are in cryptography, coding theory, linear recurrences, and control theory. Applications include the Advanced Encryption Standard, decoding of BCH codes, and convolutional codes. The material for these topics is developed systematically, allowing students a taste of real-life, cutting edge applications.

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