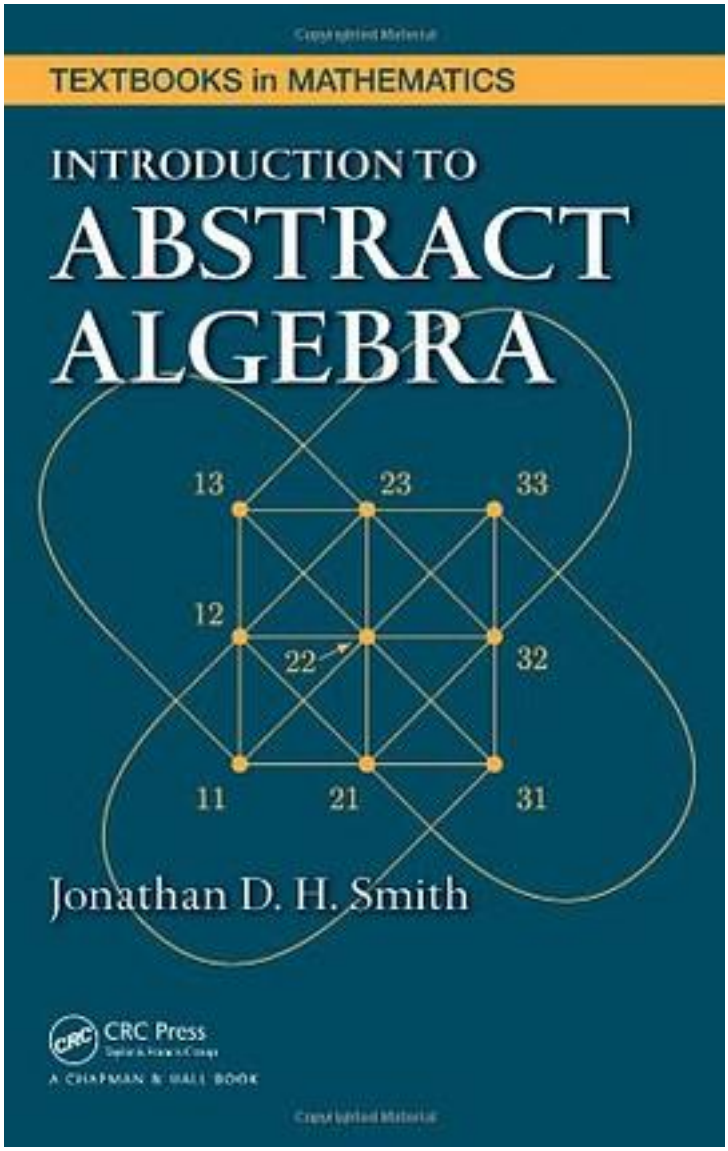
Introduction to Abstract Algebra



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This Third Edition of the acclaimed self-study text lets you learn abstract algebra at your own pace The Third Edition of Introduction to Abstract Algebra continues to provide an accessible introduction to the basic structures of abstract algebra: groups, rings, and fields.The text's unique approach helps readers advance to abstract theory by presenting concrete examples of induction, number theory, integers modulo n, and permutations before the abstract structures are defined. Readers can immediately begin to perform computations using abstract concepts that are developed in greater detail later in the text. As in the previous editions, the Third Edition offers many special features to help readers learn and apply their developing knowledge of abstract algebra: Historical notes and biographies of mathematicians provide context and perspective Some 500 worked examples help readers understand key concepts and their applications Almost 1,500 computational and theoretical exercises ranging from basic to complex challenge readers to apply their knowledge to solve problems. Many answers are provided in the text Applications to real-world problems in such areas as coding theory and combinatorics help readers grasp the topic's relevancy Special topics such as symmetric polynomials, nilpotent groups, semidirect products of groups, and the Wedderburn-Artin theorem for rings are included for more advanced study This Third Edition includes thoroughly revised chapters and much new material, including new sections covering free, semisimple, and projective modules; modules over principal ideal domains; as well as semidirect products and the Wedderburn-Artin theorem. Two new appendices have been added on Zorn's lemma and the proof of the recursion theorem. Numerous worked examples, exercises, and real-world applications make this text perfect for upper-level undergraduate and graduate courses. Moreover, with this book's self-contained chapters, students can learn at their own pace, and instructors can adapt the text to meet a variety of course objectives.

作者介绍:

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教科书

评论

坑爹的教科书，茫然的焦老师，周四晚Harrison欢乐吐槽通宵作业党，周五下午DRL图书馆作业吐槽党，宾大第一年的美好(?)回忆，"What is homomorphism?"

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