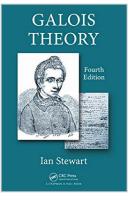
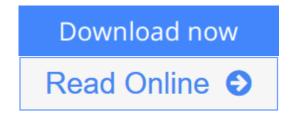
# **Galois Theory, Fourth Edition**



By Ian Nicholas Stewart



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Since 1973, **Galois Theory** has been educating undergraduate students on Galois groups and classical Galois theory. In **Galois Theory, Fourth Edition**, mathematician and popular science author Ian Stewart updates this well-established textbook for today's algebra students.

#### New to the Fourth Edition

- The replacement of the topological proof of the fundamental theorem of algebra with a simple and plausible result from point-set topology and estimates that will be familiar to anyone who has taken a first course in analysis
- Revised chapter on ruler-and-compass constructions that results in a more elegant theory and simpler proofs
- A section on constructions using an angle-trisector since it is an intriguing and direct application of the methods developed
- A new chapter that takes a retrospective look at what Galois actually did compared to what many assume he did
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"... this book remains a highly recommended introduction to Galois theory along the more classical lines. It contains many exercises and a wealth of examples, including a pretty application of finite fields to the game solitaire. ... provides readers with insight and historical perspective; it is written for readers who would like to understand this central part of basic algebra rather than for those whose only aim is collecting credit points."

?Zentralblatt MATH 1322

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#### About the Author

**Ian Stewart** is an emeritus professor of mathematics at the University of Warwick and a fellow of the Royal Society. Dr. Stewart has been a recipient of many honors, including the Royal Society's Faraday Medal, the IMA Gold Medal, the AAAS Public Understanding of Science and Technology Award, and the LMS/IMA Zeeman Medal. He has published more than 180 scientific papers and numerous books, including several bestsellers co-authored with Terry Pratchett and Jack Cohen that combine fantasy with nonfiction.

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