

Springer

1st
edition1st ed. 2018, XVII, 293 p.
12 illus.**Printed book**

Softcover

Printed book

Softcover

ISBN 978-3-319-72325-9

\$ 44,99

Available

Discount group

Professional Books (2)

Product category

Undergraduate textbook

Series

Springer Undergraduate Mathematics Series

Mathematics : Field Theory and Polynomials

Brzeziński, Juliusz, University of Gothenburg, , Sweden

Galois Theory Through Exercises

- Provides a hands-on approach to learning Galois theory, focusing on problem-solving exercises
- Features almost 500 exercises with hints, answers or solutions
- Includes Maple tutorials and exercises

This textbook offers a unique introduction to classical Galois theory through many concrete examples and exercises of varying difficulty (including computer-assisted exercises). In addition to covering standard material, the book explores topics related to classical problems such as Galois' theorem on solvable groups of polynomial equations of prime degrees, Nagell's proof of non-solvability by radicals of quintic equations, Tschirnhausen's transformations, lunes of Hippocrates, and Galois' resolvents. Topics related to open conjectures are also discussed, including exercises related to the inverse Galois problem and cyclotomic fields. The author presents proofs of theorems, historical comments and useful references alongside the exercises, providing readers with a well-rounded introduction to the subject and a gateway to further reading. A valuable reference and a rich source of exercises with sample solutions, this book will be useful to both students and lecturers. Its original concept makes it particularly suitable for self-study.

Order online at [springer.com/booksellers](https://www.springer.com/booksellers)**Springer Nature Customer Service Center LLC**

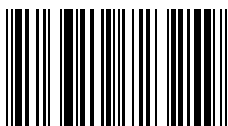
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-319-72325-9 / BIC: PBF / SPRINGER NATURE: SCM11051

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**