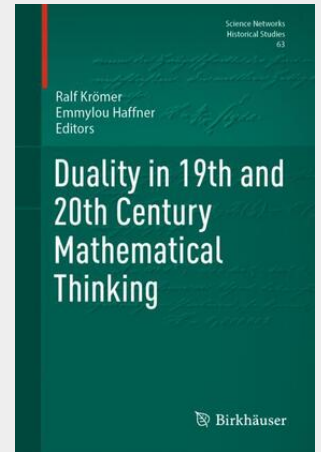


## Duality in 19th and 20th Century Mathematical Thinking

This volume brings together scholars across various domains of the history and philosophy of mathematics, investigating duality as a multi-faceted phenomenon. Encompassing both systematic analysis and historical examination, the book endeavors to elucidate the status, roles, and dynamics of duality within the realms of 19th and 20th-century mathematics. Eschewing a priori notions, the contributors embrace the diverse interpretations and manifestations of duality, thus presenting a nuanced and comprehensive perspective on this intricate subject. Spanning a broad spectrum of mathematical topics and historical periods, the book uses detailed case studies to investigate the different forms in which duality appeared and still appears in mathematics, to study their respective histories, and to analyze interactions between the different forms of duality. The chapters inquire into questions such as the contextual occurrences of duality in mathematics, the influence of chosen forms of representation, the impact of investigations of duality on mathematical practices, and the historical interconnections among various instances of duality. Together, they aim to answer a core question: Is there such a thing as duality in mathematics, or are there just several things called by the same name and similar in some respect? What emerges is that duality can be considered as a basic structure of mathematical thinking, thereby opening new horizons for the research on the history and the philosophy of mathematics and the reflection on mathematics in general. The volume will appeal not only to experts in the discipline but also to advanced students of mathematics, history, and philosophy intrigued by the complexities of this captivating subject matter.



**235,39 €**

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*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9783031597961

**Medium:** Buch

**ISBN:** 978-3-031-59796-1

**Verlag:** Springer Nature Switzerland

**Erscheinungstermin:** 02.07.2024

**Sprache(n):** Englisch

**Auflage:** 2024

**Serie:** Science Networks. Historical Studies

**Produktform:** Gebunden

**Gewicht:** 1607 g

**Seiten:** 960

**Format (B x H):** 160 x 241 mm

