

Springer

1st  
edition1st ed. 2019, XVIII, 865 p.  
165 illus.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-030-04030-7

\$ 169,99

Available

**Discount group**

Professional Books (2)

**Product category**

Contributed volume

**Series**

Advances in Mathematics Education

**Education : Mathematics Education**

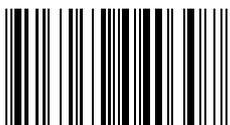
Huang, R., Takahashi, A., da Ponte, J.P. (Eds.), Middle Tennessee State University, Murfreesboro, TN, USA

# Theory and Practice of Lesson Study in Mathematics

**An International Perspective**

- Brings together international research and theories on lesson study (LS) in Mathematics
- Presents issues and strategies for the effective implementation of lesson study in Mathematics
- Advances lesson study as a professional development approach to a research methodology
- Extends the field by including two brands of lesson study: Chinese LS and HK /Sweden learning study

This book brings together and builds on the current research efforts on adaptation, conceptualization, and theorization of Lesson Study (LS). It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives. Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries, it enables the reader to take a comparative perspective. Finally, the book presents and discusses studies on key aspects of LS such as lesson planning, post-lesson discussion, guiding theories, connection between research and practice, and upscaling. Lesson Study, which has originated in Asia as a powerful effective professional development model, has spread globally. Although the positive effects of lesson study on teacher learning, student learning, and curriculum reforms have been widely documented, conceptualization of and research on LS have just begun to emerge. This book, including 38 chapters contributed by 90 scholars from 21 countries, presents a truly international collaboration on research on and adaptation of LS, and significantly advances the development of knowledge about this process. Chapter 15: "How Variance and Invariance Can Inform Teachers' Enactment of Mathematics Lessons" of this book is available open access under aCC BY 4.0 license at [link.springer.com](https://link.springer.com).

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ISBN 978-3-030-04030-7 / BIC: JNU / SPRINGER NATURE: SCO25000

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