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Mathematics Teacher Educators The Transposition of Didactical Research and the Development of Researchers and Teacher Educators / Authors: Maha Abboud, Aline Robert, and Janine Rogalski ; ; Chapter 7 Mathematics Teacher Educators' Learning through Self-Based Methodologies / Authors: Olive Chapman, Signe Kastberg, Elizabeth Suazo-Flores, Dana Cox, and Jennifer Ward -- ; Part 3 Mathematics Teacher Educators Learning from Practice / Editors: Kim Beswick and Olive Chapman -- ; Chapter 8 Conceptualization and Enactment of Pedagogical Content Knowledge by Mathematics Teacher Educators in Prospective Teachers' Mathematics Content Courses / Author: Aina Appova ; ; Chapter 9 Learning to Be Mathematics Teacher Educators From Professional Practice to Personal Development / Authors: Yingkang Wu, Yiling Yao, and Jinfa Cai ; ; Chapter 10 Learning with and from TRU. Teacher Educators and the Teaching for Robust Understanding Framework / Authors: Alan H. Schoenfeld, Evra Baldinger, Jacob Disston, Suzanne Donovan, Angela Dosalmas, Michael Driskill, Heather Fink, David Foster, Ruth Haumersen, Catherine Lewis, Nicole Louie, Alanna Mertens, Eileen Murray, Lynn Narasimhan, Courtney Ortega, Mary Reed, Sandra Ruiz, Alyssa Sayavedra, Tracy Sola, Karen Tran, Anna Weltman, David Wilson, and Anna Zarkh ; ; Chapter 11 Mathematics Teacher Educators Learning from Efforts to Facilitate the Learning of Key Mathematics Concepts While Modelling Evidence-Based Teaching Practice / Authors: James A. Mendoza Alvarez, Kathryn Rhoads, and Theresa Jorgensen ; ; Chapter 12 Mathematics Teaching Development in Higher Education / Author: Simon Goodchild ; ; Chapter 13 Becoming a Mathematics Teacher Educator : Perspectives from Kazakhstan and Australia / Authors: Rosemary Callingham, Yershat Sapazhanov, and Alibek Orynassar -- ; Part 4: Researching Mathematics Teacher Educators /Editors: Kim Beswick and Olive Chapman ; ; Chapter 14 Competing Pressures on Mathematics Teacher Educators /Author: Margaret Marshman -- ; Back Matter ; ; Index

Sommario/riassunto

This second edition of the International Handbook of Mathematics Teacher Education builds on and extends the topics/ideas in the first edition while maintaining the themes for each of the volumes. Collectively, the authors looked back beyond and within the last 10 years to establish the state-of-the-art and continuing and new trends in mathematics teacher and mathematics teacher educator education, and looked forward regarding possible avenues for teachers, teacher educators, researchers, and policy makers to consider to enhance and/or further investigate mathematics teacher and teacher educator learning and practice, in particular. The volume editors provide introductions to each volume that highlight the subthemes used to group related chapters, which offer meaningful lenses to see important connections within and across chapters. Readers can also use these subthemes to make connections across the four volumes, which, although presented separately, include topics that have relevance across them since they are all situated in the common focus regarding mathematics teachers. Volume 4, The Mathematics Teacher Educator as a Developing Professional, focuses on the professionalization of mathematics teacher educators, which, since the first Handbook, continues to grow as an important area for investigation and development. It addresses teacher educators' knowledge, learning and practice with teachers/instructors of mathematics. Thus, as the fourth volume in the series, it appropriately attends to those who hold central roles in mathematics teacher education to provide an excellent culmination to the handbook"--
