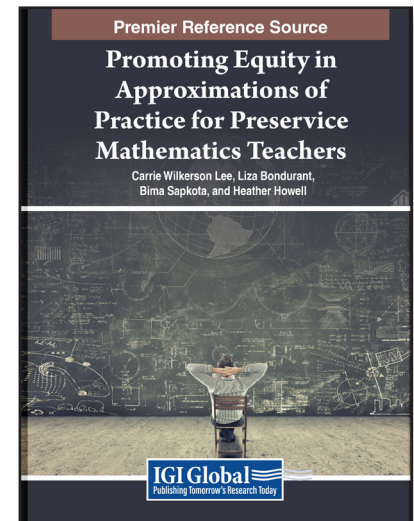


# Promoting Equity in Approximations of Practice for Preservice Mathematics Teachers

Part of the Advances in Educational Marketing, Administration, and Leadership Book Series

Carrie Wilkerson Lee (East Carolina University, USA), Liza Bondurant (Delta State University, USA), Bima Sapkota (Ball State University, USA) and Heather Howell (University of Texas Rio Grande Valley, USA) (ETS, USA),



## Description:

Within the field of preservice mathematics teacher (PST) education, a profound challenge echoes—the persistent gap between theoretical understanding and practical application. This lingering divide raises a critical concern, one that finds its focus in the exploration of transformative tools known as approximations of practice. These tools aim to provide a realistic and contextualized environment for PSTs to cultivate their teaching skills. However, the broader, oft-overlooked issue permeating this educational terrain is the question of equity in mathematics instruction—an issue that this book endeavors to unravel and reshape, positioning equity at the forefront of pedagogical considerations. **Promoting Equity in Approximations of Practice for Preservice Mathematics Teachers**, a compelling work that not only delves into the transformative role of approximations but also champions equity as a cornerstone in reshaping the landscape of mathematics education.

This groundbreaking work has a dual objective—firstly, to furnish mathematics teacher educators and researchers with a comprehensive overview of the current landscape of approximations in mathematics education. It moves beyond a mere survey, encouraging readers to critically analyze frameworks and design choices that either foreground or dismiss equity in these pedagogical spaces. Divided into three sections, the book delves into the spectrum of work characterizing approximations in mathematics teacher education. The first section surveys diverse approaches, acknowledging the current lack of focus on equity. The second section critically examines the intersection of equity and approximations, fostering collaborations between experts in mathematics education and equity-focused researchers. The third section takes a forward-looking stance, envisioning the future of equity-focused approximations in mathematics education.

**Promoting Equity in Approximations of Practice for Preservice Mathematics Teachers** serves as a beacon for those seeking to navigate the intricate intersections of pedagogy and equity. With an insightful exploration of methodologies and design elements associated with approximations, this book offers a roadmap for educators and researchers. Its pages unfold as a dynamic resource, encouraging practitioners to position their use of approximations as catalysts for equitable mathematics instruction. Aiming to provoke thoughtful reflection, the book not only addresses the current state of the field but also propels readers toward envisioning a future where equity-focused approximations become the norm in mathematics teacher education. Through its meticulous approach, this work is poised to spark meaningful conversations, inspire transformative practices, and ultimately contribute to the ongoing evolution of equitable educational landscapes.

**ISBN:** 9798369311646

**Pages:** 320

**Copyright:** 2024

**Release Date:** February, 2024

**Hardcover:** \$245.00

**E-Book:** \$245.00

**Hardcover +  
E-Book:** \$295.00

## Topics Covered:

- Analysis and Critique of Student Representations
- Building Equitable Assessments
- Case Studies and Vignettes
- Conceptualizations in Approximations
- Current Uses of Cycles of Enactment
- Envisioning Future Impacts
- Issues of Bias in Approximations
- Learnings From Diverse Settings
- Lessons From Past Approximations
- Professional Development in Approximations
- Rehearsals in Mathematics Coursework
- Social Justice in Approximations
- Teacher Educator Feedback in Equity
- Virtual Simulations

**Subject:** Education

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**Research Suitable for:** Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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