

Theory and Methods for Sociocultural Research in Science and Engineering: Unraveling the Hidden Dimensions

In the rapidly evolving landscape of Science, Technology, Engineering, and Mathematics (STEM) fields, researchers face the challenge of understanding the complex interplay between scientific advancements and the broader social and cultural contexts in which they are embedded.

Theory and Methods for Sociocultural Research in Science and Engineering offers a comprehensive guide to navigate this intricate terrain, providing invaluable insights for scholars seeking to unravel the hidden dimensions of STEM research.

The book opens with a thorough exploration of foundational theories in sociocultural research, laying the groundwork for understanding the social and cultural factors that shape scientific and engineering practices. These theoretical frameworks provide a lens through which researchers can analyze the influence of culture, power dynamics, and social norms on STEM research and innovation.

Beyond theory, the book delves into a wide range of methodological approaches designed to capture the sociocultural aspects of STEM research. From qualitative methods such as interviews, observations, and discourse analysis to quantitative methods like surveys and bibliometric analysis, researchers will find a detailed overview of the strengths and limitations of each approach.



Theory and Methods for Sociocultural Research in Science and Engineering Education (Teaching and Learning in Science Series) by Alicja Urbanowicz

5 out of 5

Language : Chinese

File size : 3049 KB

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 392 pages

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To illustrate the practical applications of sociocultural research in STEM, the book showcases a series of compelling case studies. These real-world examples provide concrete demonstrations of how researchers have successfully employed sociocultural approaches to investigate topics such as the gendered experiences of female engineers, the role of culture in shaping design decisions, and the ethical implications of emerging technologies.

Theory and Methods for Sociocultural Research in Science and Engineering empowers researchers with critical insights into the following areas:

This foundational work is an indispensable resource for researchers in STEM fields, including science education, engineering education, science and technology studies, and sociology of science. By harnessing the power of sociocultural research approaches, researchers can gain a deeper understanding of the complex dynamics shaping STEM research and innovation, leading to more inclusive, equitable, and sustainable outcomes.



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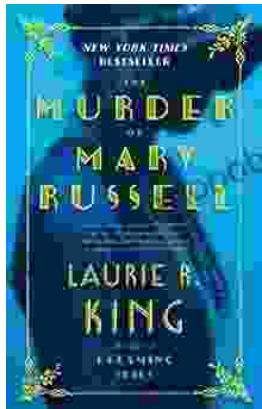
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