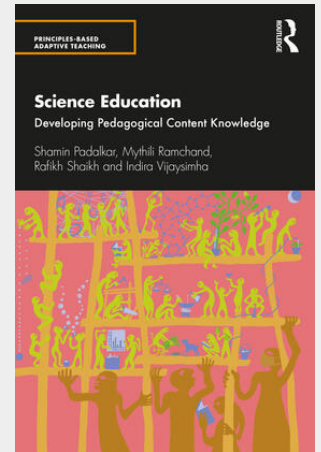


## Science Education

Developing Pedagogical Content Knowledge

The book presents key perspectives on teaching and learning science in India. It offers adaptive expertise to teachers and educators through a pedagogic content knowledge (PCK) approach. Using cases and episodes from Indian science classrooms to contextualise ideas and practices, the volume discusses the nature of science, and aspects of assessments and evaluations for both process skills and conceptual understanding of the subject. It examines the significance of science education at school level and focuses on meaningful learning and development of scientific and technological aptitude. The chapters deal with topics from physics, chemistry and biology at the middle- and secondary-school levels, and are designed to equip student-teachers with theoretical and practical knowledge abilities about science, science learning and the abilities to teach these topics along with teaching. The book draws extensively from research on science education and teacher education and shifts away from knowledge transmission to the active process of constructivist teaching-learning practices. The authors use illustrative examples to highlight flexible planning for inclusive classrooms. Based on studies on cognitive and developmental psychology, pedagogical content knowledge of science, socio-cultural approaches to learning science, and the history and philosophy of science, the book promotes an understanding of science characterized by empirical criteria, logical arguments and sceptical reviews. With its accessible style, examples, exercises and additional references, it will be useful for students and teachers of science, science educators, BEd and MEd programmes for education, secondary and higher secondary school teachers, curriculum designers and developers of science. It will interest research institutes, non-governmental organisations, professionals and public and private sector bodies involved in science outreach, science education and teaching and learning practices.



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