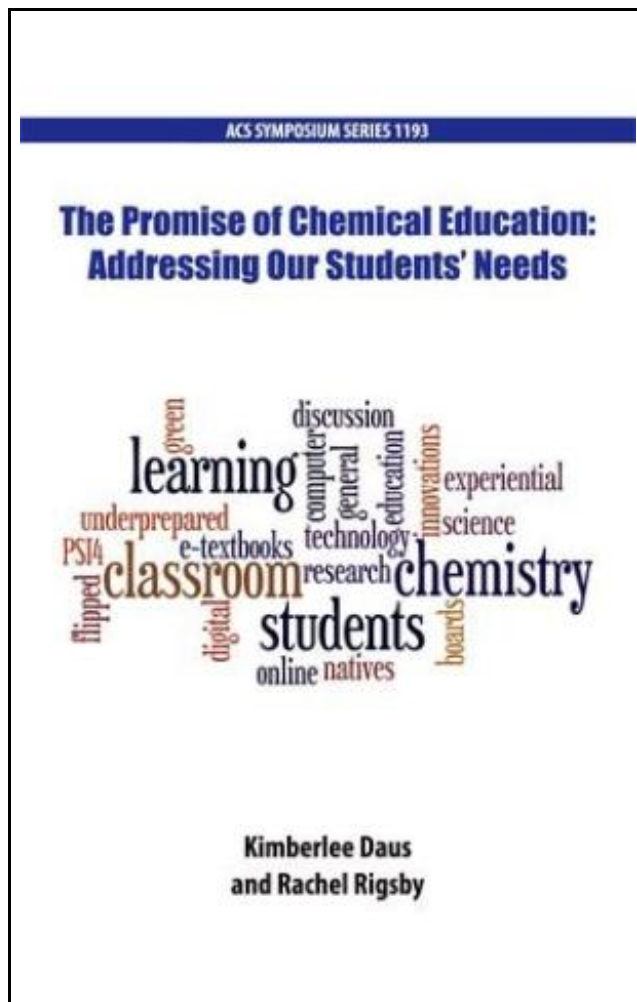


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Oxford University Press Inc, United States, 2016. Hardback. Book Condition: New. 231 x 171 mm. Language: English . Brand New Book. College and university faculty find themselves tasked with teaching in the face of ever-changing trends in higher education and constant shifts in the student population. Educators must balance student engagement and retention with their learning and satisfaction in a never-ending cycle of changes in technology, the economy, and the political climate. Even when certain pedagogies or classroom techniques are shown to be beneficial in one discipline, individual faculty may find it challenging to apply them in their own classrooms. This is certainly true in chemistry. Many faculty in chemistry today struggle to embrace research-based educational practices, even those coming out of our own discipline. Graduate programs in chemical education, recent reports on discipline-based education research (1), and an increase in the scholarship of teaching and learning in chemistry indicate a desire among many faculty to change-to reach students in new and exciting ways or to change curricula to better meet students needs. Faculty are looking for things that work-techniques used by chemists, for chemists. This volume contributes to this on-going conversation. The scholarship presented within this volume is organized in three sections. The first explores innovations found to enhance the learning of typical students as well as those who may be under-prepared. Authors describe their experiences using the flipped classroom and institutional readiness models. The second section provides examples of how technology may be utilized in the chemistry classroom-from e-textbook usage to a computational chemistry program to concrete suggestions for teaching chemistry online. The final section addresses broader issues in chemistry. One chapter demonstrates how to incorporate High-Impact Educational Practices (2) into courses for chemistry majors and nonmajors. A final chapter describes how colleges can adopt the Green Chemistry...



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