

Introductory Mathematics for Engineering Applications

Second Edition

**Kuldip S. Rattan, Nathan W. Klingbeil
Craig M. Baudendistel**



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Kuldip S. Rattan, Cynthia Y. Young



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The Borderlands of Education Michelle Madsen Camacho, Susan M. Lord, 2013-03-22 This innovative work critically studies the contemporary problems of one segment of science, technology, engineering, and math (STEM) education. The lack of a diverse U.S.-based pool of talent entering the field of engineering education has been termed a crisis by academic and political leaders. Engineering remains one of the most sex-segregated academic arenas; the intersection of gendered and racialized exclusion results in very few Latina engineers. Drawing on cutting-edge scholarship in gender and Latino studies, the book provides an analytically incisive view of the experiences of Latina engineers. Sponsored by the National Science Foundation through a Gender in Science and Engineering grant, the authors bridge interdisciplinary perspectives to illuminate the nuanced and multiple exclusionary forces that shape the culture of engineering. A large, multi-institution longitudinal dataset permits disaggregation by race and gender. The authors rely on primary and secondary sources and incorporate an integrated mixed-methods approach combining quantitative and qualitative data. Together, this analysis of the voices of Latina engineering majors breaks new ground in the literature on STEM education and provides an exemplar for future research on subpopulations in these fields. This book is aimed at researchers who study underrepresented groups in engineering and are interested in broadening participation and ameliorating problems of exclusion. It will be attractive to scholars in the fields of multicultural and higher education, sociology, cultural anthropology, cultural studies, and feminist technology studies, and all researchers interested in the intersections of STEM, race, and gender. This resource will be useful for policy makers and educational leaders looking to

revitalize and re envision the culture within engineering Changing the Face of Engineering John Brooks Slaughter, Yu Tao, Willie Pearson Jr., 2015-12-15 How can academic institutions corporations and policymakers foster African American participation and advancement in engineering For much of America s history African Americans were discouraged or aggressively prevented from becoming scientists and engineers Those who did enter STEM fields found that their inventions and discoveries were often neither recognized nor valued Even today particularly in the field of engineering the participation of African American men and women is shockingly low and some evidence indicates that the situation might be getting worse In Changing the Face of Engineering twenty four eminent scholars address the underrepresentation of African Americans in engineering from a wide variety of disciplinary and professional perspectives while proposing workable classroom solutions and public policy initiatives They combine robust statistical analyses with personal narratives of African American engineers and STEM instructors who by taking evidenced based approaches have found success in graduating African American engineers Changing the Face of Engineering argues that the continued underrepresentation of African Americans in engineering impairs the ability of the United States to compete successfully in the global marketplace This volume will be of interest to STEM scholars and students as well as policymakers corporations and higher education institutions

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