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A comprehensive textbook on the mechanics and strength of materials for students of engineering throughout their undergraduate career. Assuming little or no prior knowledge, all of the topics of stress and strain analysis are covered. Mechanical properties such as tensile behavior, fatigue, creep, fracture, and impact are discussed, including the introduction of such advanced topics as finite element analysis, fracture mechanics, and composite materials. Computers and spreadsheets are used throughout to show their power as problem-solving tools.

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Assuming little or no prior knowledge, Peter Benham develops the theory of the subject from first principles, and covers all topics of strain analysis.

A one-stop desk reference, for engineers involved in the use of engineered

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This comprehensive educational history of public schools in Hawai'i shows and analyzes how dominant cultural and educational policy have affected the education experiences of Native Hawaiians. Drawing on institutional theory as a scholarly lens, the authors focus on four historical cases representing over 150 years of contact with the West. They carefully link historical events, significant people, educational policy, and law to cultural and social consequences for Native Hawaiian children and youth. The authors argue that since the early 1800s, educational policy in Hawai'i emphasizing efficiency has resulted in institutional structures that have degenerated Hawaiian culture, self-image, and sovereignty. Native Hawaiians have often been denied equal access to quality schools and resulting increased economic and social status. These policies were often overtly, or covertly, racist and reflected wider cultural views prevalent across the United States regarding the assimilation of groups into the American mainstream culture. The case of education in Hawai'i is used to initiate a broader discussion of similar historical trends in assimilating children of different backgrounds into the American system of education. The scholarly analysis presented in this book draws out historical, political, cultural, and organizational implications that can be employed to understand other Native and non-Native contexts. Given the increasing cultural diversity of the United States and the perceived failure of the American educational system in light of these changes, this book provides an exceptionally appropriate starting point to begin a discussion about past, present, and future schooling for our nation's children. Because it is written and comes from a Native perspective, the value of the "insider" view is illuminated. This underlying reminder of the Native eye is woven throughout the book in Ha'awina No'ono'o--the sharing of thoughts from the Native Hawaiian author. With its primary focus on the education of native groups, this book is an extraordinary and useful work for scholars, thoughtful practitioners, policymakers, and those interested in Hawai'i, Hawaiian education, and educational policy and theory.

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