

**Probabilistic Methods in Structural Engineering** by G. Augusti, A. Baratta and F. Casciati, Chapman and Hall, London, 1984, pp. 556, \$90.00.

**REVIEWED BY H. I. EPSTEIN**

This textbook incorporates a background on the theory of probability, as well as data collection and analysis, and applies them to various structural problems. The book is divided into two parts. Part One contains analytical methods for treating

elastic or plastic structures. Models for external loads are presented and structural reliability is treated in depth. Part Two contains various operative methods in statistics, random functions, numerical methods and their application to structural engineering and structural codes. An extensive appendix contains detailed treatments of random variables and probability theory.

The overall treatment of the topic is comprehensive and well thought out. This would make a very good textbook for a graduate level course.