

# Professor, Florida Atlantic University

## Rosson, Barry



### Specialties:

- Model Nonlinear Behavior of Steel Systems
- Create Inelastic Material Models for Steel W-Shapes
- Develop Practical Methods for Stability Analysis
- Generate Innovative Methods for Teaching and Learning Advanced Analysis and Design Topics

### Qualifications & Certifications:

- Ph.D., 1991, Civil Engineering, Auburn University
- M.S., 1985, Civil Engineering, Texas A&M University
- B.S., 1983, *Magna Cum Laude*, Civil Engineering, Texas A&M University
- Professional Engineer, Nebraska E-7866

### Professional Experience:

- 30 years as Professor and Researcher
- 3 years as Consulting Engineer, Dallas, Texas

### Committees & Memberships:

- SSRC – Chair, TG03 Systems
- ASCE, SEI – Chair, Committee on Structural Members
- ASCE – Past-Chair, Committee on Professional Practice, Council of Institute Presidents
- ASCE – Past-Member, Stability Technical Committee, Dynamic Effects Committee, Shock and Vibratory Effects, Past-Associate Editor *Journal of Structural Engineering*
- ASCE, AEI – Past-President
- Fellow – ASCE and AEI
- Chapter Honor Member – Chi Epsilon, University of Nebraska

**Summary:** Dr. Rosson has over 30 years of experience in the analysis and design of steel and reinforced concrete structures. His work experience encompasses a wide range of subjects; earlier in his career he designed commercial high-rise buildings, and tested bridge rails and guardrails under full-scale impact conditions, but now he focuses his research and teaching efforts on analysis and design aspects of steel systems that involve geometric and material nonlinearities. From 1991 to 2007, he was a Professor at the University of Nebraska-Lincoln where he taught courses primarily in Steel Design, and Structural Design & Planning. Since 2007, he has been a Professor at Florida Atlantic University where he also served as Dean of the Graduate College and Vice President for Research. At FAU, he has taught courses in Steel Design, Advanced Building Design, Nonlinear Behavior of Structures, and Advanced Structural Analysis. He has authored or co-authored numerous journal articles, technical reports, and conference papers on his research findings. Most recently, he was the Instructor for the Short Course “Nonlinear Structural Analysis Methods Used in Modern Steel Design” at the 2019 North American Steel Construction Conference.

