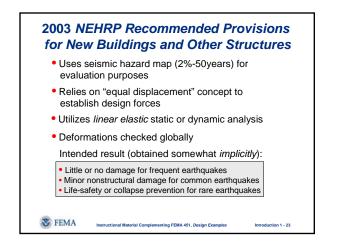
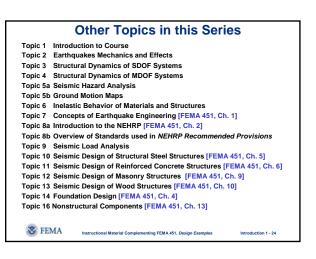


These Instructional Materials FOCUS on STRUCTURAL ENGINEERING and • New buildings • Hazards associated with ground shaking • "Force-Based" approach of 2003 NEHRP Recommended Provisions (FEMA 450) • Examples presented in NEHRP Recommended Provisions: Design Examples (FEMA 451) • Probabilistic and deterministic based ground motions • New concepts of performance-based engineering









	Other Topics in this Serie Part 2: Advanced Topics	S
Topic 15-1 Topic 15-2 Topic 15-3 Topic 15-4 Topic 15-5a Topic 15-5b Topic 15-5c Topic 15-6 Topic 15-7 Topic 15-8	Introduction Performance Based Engineering Seismic Hazard Analysis Geotechnical Earthquake Engineering Advanced Analysis, Part 2 of 3 Advanced Analysis, Part 3 of 3 Passive Energy Systems [FEMA 451, Ch. 6] Seismic Isolation [FEMA 451, Ch. 11] Nonbuilding Systems [FEMA 451, Ch. 12]	
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Chapters in the FEMA 451 Examples CD

Ch. 1	Fundamentals
Ch. 2	Guide to the Use of the NEHRP Recommended Provisions
Ch. 3	Structural Analysis (including nonlinear analysis)
Ch. 4	Foundation Design
Ch. 5	Steel Structures
Ch. 6	Reinforced Concrete Structures
Ch. 7	Precast Concrete Structures
Ch. 8	Composite Steel/Concrete Structures
Ch. 9	Masonry Structures
Ch. 10	Wood Structures
Ch. 11	Seismically Isolated Structures
Ch. 12	Nonbuilding Structures
Ch. 13	Nonstructural Components
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	nas octobe material complementing - Lary 401, Design Examples Introduction 1 - 20

Structural engineering: The art of using materials that have properties which can only be estimated to build real structures that can only be approximately analyzed to withstand forces that are not accurately known so that our responsibility to the public safety is satisfied.

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