



Illinois Society of Professional Engineers - University of Illinois
College of Engineering
Professional Engineer On-Line Seminar Series



INSTRUCTIONS:

1. View the on-line seminar.
2. Complete the quiz below.
3. Complete the "Engineer Information" section.
4. Make a copy for your records.
5. Mail the quiz along with your \$20 payment (credit card information or check payable ISPE) to:
ISPE, 100 East Washington Street, Springfield, IL 62701.

If you score an 80% or better on the quiz, you will receive your certificate within 4 weeks. If you fail to earn an 80% score, the quiz will be returned to you and you will have the opportunity to retake it.

Each seminar/quiz is worth 1 Professional Development Hour.

QUIZ: 04-13
TOPIC: Vulnerability Assessment Under Earthquake Action:
From Field Observation to Hybrid Simulations.
PRESENTER: Prof. Amr S. Elnashai

1. One of the contributions of Nathan Newmark is a development of inelastic spectra.
(circle) TRUE FALSE
2. The most lethal earthquake in twentieth century occurred in Japan.
(circle) TRUE FALSE
3. Which of the following is not a tool of earthquake engineering vulnerability assessment?
A. Field Observation
B. Laboratory testing
C. Advanced Analysis
D: Real-Scale testing
4. In deterministic vulnerability assessment, analytical and probabilistic tools and field observation are used.
(circle) TRUE FALSE
5. Material variability such as ductility is as significant in demand and capacity as variability of ground motion.
(circle) TRUE FALSE
6. In order to derive vulnerability function within a reasonable time, adaptive pushover scheme is employed instead of inelastic response history analysis.
(circle) TRUE FALSE
7. Choose 3 parameters influencing the shape of the vulnerability functions
A. Energy
B. Strength
C. Ductility
D. Stiffness
E: Scaling (size) effects

QUIZ 04-13 CONTINUED

8. Interstate 10 hybrid simulation is the first test done in NEES facility.
(circle) TRUE FALSE
9. Interstate 10 hybrid simulation result agrees with experimental observation reasonably.
(circle) TRUE FALSE
10. Which of the following is affiliated with University of Illinois?
A. Jeus software
B. NEES
C. Mid America Center
D. all of the above

ENGINEER INFORMATION

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