



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



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: 03-03
TOPIC: Biologically inspired Soft Computing Methods in Engineering
PRESENTER: Prof. Jamshid Ghaboussi

1. Soft Computing is:
(a) Computing done by hand
(b) Based on precise mathematics
(c) Inspired by Nature
(d) None of the above
(e) All of the above
2. Examples of soft computing tools are:
(a) Finite element method
(b) Neural Networks
(c) Genetic Algorithms
(d) b & c
(e) All of the above
3. Inverse problems usually have unique solutions.
(circle) TRUE FALSE
4. Inverse Problems are mainly of how many types?
(a) 1
(b) 2
(c) 3
(d) 4
(e) None of the above
5. An example of type I inverse problem is
(a) Given loads and structure, find displacement
(b) Given structure and displacement, find loads
(c) Given loads and displacement, find structure
(d) None of the above
(e) All of the above
6. Most engineering problems are type II inverse problems.
(circle) TRUE FALSE
7. Learning in nature is
(a) Imprecision tolerant
(b) Non-universal
(c) Functionally non-unique
(d) Achieved through forward problems
(e) All of the above

