

# ME5622 - Structural Integrity and FEA

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1.

Zienkiewicz, O. C., Taylor, R. L. & Zhu, J. Z. The finite element method: its basis and fundamentals. (Butterworth-Heinemann, 2005).

2.

Bathe, K.-J. Finite element procedures in engineering analysis. (Prentice-Hall, 1982).

3.

Beer, G. & Watson, J. O. Introduction to finite and boundary element methods for engineers . (New York, 1992).

4.

Logan, D. L. A first course in the finite element method. (Cengage Learning, 2017).

5.

Burnett, D. S. Finite element analysis: from concepts to applications. (Addison-Wesley Pub. Co, 1987).

6.

Chandrupatla, T. R. & Belegundu, A. D. Introduction to finite elements in engineering. (Prentice Hall, 2011).

7.

Cook, R. D. & Cook, R. D. Concepts and applications of finite element analysis. (Wiley, 2002).

8.

Cook, R. D. Finite element modeling for stress analysis. (John Wiley, 1995).

9.

Desai, C. S. Elementary finite element method. (Prentice-Hall, 1979).

10.

Fung, Y. C., Tong, P. & Chen, X. H. Classical and computational solid mechanics. vol. volume 2 (World Scientific, 2016).

11.

Grandin, H. Fundamentals of the finite element method. (Macmillan, 1986).

12.

Huebner, K. H., Dewhirst, D. L., Smith, D. E. & Byrom, T. G. The finite element method for engineers. (Wiley, 2001).

13.

Knight, C. E. The finite element method in mechanical design. (PWS-Kent Pub. Co, 1993).

14.

Logan, D. L. A first course in the finite element method. (Cengage Learning, 2017).

15.

Moaveni, S. Finite element analysis: theory and application with ANSYS. (Pearson, 2015).

16.

Pepper, D. W. & Heinrich, J. C. The finite element method: basic concepts and applications with MATLAB, MAPLE, and COMSOL. (CRC Press, Taylor & Francis Group, an Informa business, 2017).

17.

Pao, Y. C. A first course in finite element analysis. (Allyn and Bacon, 1986).

18.

Rao, S. S. The finite element method in engineering. (Butterworth-Heinemann, an imprint of Elsevier, 2018).

19.

Reddy, J. N. Introduction to the finite element method. (McGraw Hill Education, 2019).

20.

Ross, C. T. F. Finite element methods in engineering science. (Ellis Horwood, 1990).

21.

Stasa, F. L. Applied finite element analysis for engineers. (Holt, Rinehart and Winston, 1985).

22.

Zienkiewicz, O. C. & Taylor, R. L. The finite element method. (Butterworth, 2000).