

# ME5622 - Structural Integrity and FEA

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1.

Zienkiewicz OC, Taylor RL, Zhu JZ. The finite element method: it's basis and fundamentals [Internet]. 6th ed. Oxford: Butterworth-Heinemann; 2005. Available from: <http://lib.mylibrary.com?id=101652&entityid=https://idp.brunel.ac.uk/entity>

2.

Bathe KJ. Finite element procedures in engineering analysis. Englewood Cliffs: Prentice-Hall; 1982.

3.

Beer G, Watson JO. Introduction to finite and boundary element methods for engineers. Chichester: New York; 1992.

4.

Logan DL. A first course in the finite element method. Sixth edition. Boston, MA, USA: Cengage Learning; 2017.

5.

Burnett DS. Finite element analysis: from concepts to applications. Reading, Mass: Addison-Wesley Pub. Co; 1987.

6.

Chandrupatla TR, Belegundu AD. Introduction to finite elements in engineering [Internet].

4th ed. Upper Saddle River, NJ: Prentice Hall; 2011. Available from:  
<http://lib.myilibrary.com/browse/open.asp?id=525359&entityid=https://idp.brunel.ac.uk/entity>

7.

Cook RD, Cook RD. Concepts and applications of finite element analysis. 4th ed. Hoboken, NJ: Wiley; 2002.

8.

Cook RD. Finite element modeling for stress analysis. New York: John Wiley; 1995.

9.

Desai CS. Elementary finite element method. Englewood Cliffs: Prentice-Hall; 1979.

10.

Fung YC, Tong P, Chen XH. Classical and computational solid mechanics. Second edition. Vol. volume 2. New Jersey: World Scientific; 2016.

11.

Grandin H. Fundamentals of the finite element method. New York: Macmillan; 1986.

12.

Huebner KH, Dewhurst DL, Smith DE, Byrom TG. The finite element method for engineers. 4th ed. New York: Wiley; 2001.

13.

Knight CE. The finite element method in mechanical design. Boston: PWS-Kent Pub. Co; 1993.

14.

Logan DL. A first course in the finite element method. Sixth edition. Boston, MA, USA: Cengage Learning; 2017.

15.

Moaveni S. Finite element analysis: theory and application with ANSYS [Internet]. Fourth Edition. Boston: Pearson; 2015. Available from: <http://lib.myilibrary.com/browse/open.asp?id=719582&entityid=https://idp.brunel.ac.uk/entity>

16.

Pepper DW, Heinrich JC. The finite element method: basic concepts and applications with MATLAB, MAPLE, and COMSOL. Third edition. Boca Raton: CRC Press, Taylor & Francis Group, an Informa business; 2017.

17.

Pao YC. A first course in finite element analysis. Boston, Mass: Allyn and Bacon; 1986.

18.

Rao SS. The finite element method in engineering. Sixth Edition. Oxford, United Kingdom: Butterworth-Heinemann, an imprint of Elsevier; 2018.

19.

Reddy JN. Introduction to the finite element method. Fourth edition. New York: McGraw Hill Education; 2019.

20.

Ross CTF. Finite element methods in engineering science. New York: Ellis Horwood; 1990.

21.

Stasa FL. Applied finite element analysis for engineers. New York: Holt, Rinehart and Winston; 1985.

22.

Zienkiewicz OC, Taylor RL. The finite element method. 5th ed. Oxford: Butterworth; 2000.