

6. REFERENCES

- [1] Akin, J.Ed, Finite Element Analysis Concepts via SolidWorks, Lecture Notes, Rice University, Houston, Texas, 2009.
- [2] Al Makky, A.: Tutorial 3: Working with DesignModeler, <http://www2.warwick.ac.uk/fac/sci/eng/pg/students/esrhaw>
- [3] Allen, G.: Geometric Modeling Problems in Industrial CAD/CAM/CAE, Siemens PLM Software, Shanghai.
- [4] ALTAIR HyperWorks 12.0, User Guide, <http://www.altairhyperworks.com>.
- [5] Ananthasuresh, G.K., The Principle of Minimum Potential Energy, lecture notes, chapter 2, Department of Mechanical Engineering, Indian Institute of Science, Bangalore, <http://www.mecheng.iisc.ernet.in>
- [6] ANSYS Workbench 14.0 User Guide // DesignModeler User Guide // Introduction / MechIntro /
- [7] Barton, M., Rajan, S.D.: Finite Element Primer for Engineers, lecture notes, Arizona State University, 2002.
- [8] Bathe, K.J.: Finite Element Analysis of Solids and Fluids II » Lecture Notes, <http://ocw.mit.edu/courses/mechanical-engineering/2-094-finite-element-analysis-of-solids-and-fluids-ii-spring-2011/lecture-notes/>
- [9] Bonet, J., Wood, R.D.: Nonlinear continuum mechanics for Finite Element Analysis, Cambridge University Press, ISBN 0 521 57272 X hardback, 1997.
- [10] Bremar Automotion Pty Ltd: Finite Element Analysis Revealed: uncovering engineering's latest design tools element, www.bremarauto.com.
- [11] Cailletaud, G., El Arem , S.: Introduction to Finite Element Method, Centre des Materiaux, MINES Paris Tech, UMR CNRS 7633, WEMESURF course, Paris, 2009.
- [12] Catbas, N.: Finite Element Analysis (Overview), lecture notes, CES 6116, University of Central Florida.

- [13] Chatzi, E.: The Finite Element Method for the Analysis of Non-Linear and Dynamic Systems, lecture notes, Swiss Federal Institute of Technology Zurich, 2010.
- [14] Dassault Systemes, Tutoriale CATIA, <http://www.3ds.com/support/documentation/users-guide/>
- [15] Dixit, U.S., Finite Element Method: an introduction, Department of Mechanical Engineering, Indian Institute of Technology Guwahati, lecture notes, 2007.
- [16] Faur, N.: Elemente finite. Fundamente, Editura POLITEHNICA, Timișoara, ISBN 973-8247-98-5, 2002.
- [17] Felippa, C.A.: Introduction to Finite Element Methods, course, University of Colorado at Boulder, (downloaded from <http://www.colorado.edu/engineering/CAS/courses.d/IFEM.d/Home.html>, oct. 2013).
- [18] [http://cadcamfunda.com/cadcam softwares](http://cadcamfunda.com/cadcam_softwares)
- [19] http://en.wikipedia.org/wiki/3D_modeling
- [20] http://en.wikipedia.org/wiki/Computer-aided_design
- [21] http://en.wikipedia.org/wiki/Computer-aided_engineering
- [22] http://en.wikipedia.org/wiki/Computer-aided_manufacturing
- [23] http://en.wikipedia.org/wiki/Finite_element_method
- [24] http://en.wikipedia.org/wiki/Product_lifecycle_management
- [25] http://en.wikipedia.org/wiki/Stress_%28mechanics%29
- [26] <http://usa.autodesk.com/adsk/servlet/item?siteID=123112&id=17670721>
- [27] <http://www.simscale.de/en/index.php?v=2&page=index>
- [28] http://www.sv.vt.edu/classes/MSE2094_NoteBook/97ClassProj/num/widas/history.html
- [29] <http://www.z88.de/>
- [30] Hall, C.: Finite Element Course – A training Manual with Worked Examples used in Industry, www.value-design-consulting.co.uk.
- [31] Hutton, D. V.: Fundamentals of Finite Element Analysis, McGraw-Hill, ISBN 0-07-239536-2, 2004.
- [32] Knight, C.E., The Finite Element Method in Mechanical Design, PWS-KENT, 1993.
- [33] Kreith, F.: The CRC handbook of mechanical engineering, CRC Press, p. 15-1, ISBN 978-0-8493-9418-8, 1998.
- [34] Liu, G.R., Quek, S.S.: The Finite Element Method. A practical course, Butterworth-Heinemann, 2003.
- [35] Liu, Y.: Introduction to the Finite Element Method, lecture notes, University of Cincinnati, 2003.
- [36] Manopulo, N.: An Introduction to the Finite Element Analysis, lecture notes, Joint Advanced Student School, St. Petersburg, 2005.

- [37] Marin, C., Hadâr, A., Popa, I.F., Albu, L.: Modelarea cu elemente finite a structurilor mecanice, Editura Academiei Române și Editura AGIR, București, 2002.
- [38] Micu, S.D.: Introducere în metoda elementului finit, Universitatea din Craiova, grant CNCSIS 80 / 2005.
- [39] Moaveni, S., Finite Element Analysis – Theory and Application with ANSYS, 2nd Ed., Pearson Education, 2003.
- [40] Mogan, Gh., Butnariu, S., Analiza cu elemente finite. Aplicatii in CATIA, Ed. Universității Transilvania, 2007, ISBN 978-973-598-159-4
- [41] Narayan, K. Lalit: Computer Aided Design and Manufacturing. New Delhi: Prentice Hall of India. p. 3. ISBN 812033342X, 2008.
- [42] Nestorovic, G.: Principles of computer modelling of the solid products learning, Interdisciplinary Description of Complex Systems 6(1), 67-73, 2008.
- [43] Nikishkov, G.P.: Introduction to the Finite Element Method, lecture notes, UCLA, 2001.
- [44] Pascu, A.: Metoda elementului finit, curs, Catedra Organe de mașini și Tribologie, Universitatea Politehnica București, 2002.
- [45] Qi, H.: Finite Element Analysis, lecture notes, MCEN 4173/5173, 2006.
- [46] Rao, S.S.: The Finite Element Method in Engineering, Elsevier Science & Technology Books, ISBN: 0750678283, 2004.
- [47] Roensch, S.: The Finite Element Method:A Four-Article Series, available at <http://www.finiteelement.com>, dec. 2013.
- [48] Sadd, M.H.: Introduction to Finite Element Methods, lecture notes, MCE 565, Wave Motion & Vibration in Continuous Media Spring, 2005.
- [49] Segerlind, L.J.: Applied Finite Element Analysis, second edition, John Willey and Sons, 1984.
- [50] Siemens: White Paper - Buyer's guide for pre- and postprocessing software, , Issued by: Siemens PLM Software. © 2012. Siemens Product Lifecycle Management Software Inc.
- [51] Sorohan, Șt.: Elemente finite în ingineria mecanică, curs, Universitatea Politehnica București, 2006.
- [52] Suvranu De, Introduction to Finite Elements – MANE 4240/CIVL 4240, lecture notes, 2013.
- [53] Zielinski, T.G.: Introduction to the Finite Element Method, Introductory Course on Multiphysics Modelling, ICMM lecture, 2007.
- [54] Zienkiewicz, O.C. and Taylor, R.L., The Finite Element Method, Fifth Edition, vol. 1, 2, 3, Butterworth – Heinemann, 2000.
- [55] de Weck, O., Finite Element Method, Lecture notes, Engineering Design and Rapid Prototyping, Massachusetts Institute of Technology, 2004.
- [56] Yücel, H., Introduction to discontinuous Galerkin finite element methods (DG-FEMs), Computational Methods in Systems and Control Theory Max Planck Institute for Dynamics of Complex Technical Systems Magdeburg, Dec 12th, 2012.