

PhD: Mechanical and Manufacturing Engineering

MSc: Mechanical Engineering Design

BSc: Mechanical Engineering

Courses

Lecturship in the following subjects:

1. Manufacturing Processes (Undergraduate)
2. CAD/CAM (Undergraduate)
3. Manufacturing Systems Engineering (Graduate)
4. Applied Plasticity and Metal Forming (Graduate)
5. Plasticity (Graduate)
6. The Forging Process and Die Design (Graduate)
7. Advanced Computer Aided Design & Manufacture(Graduate)
8. Principles of Metal Machining (Graduate)
9. Machine Tool Analysis (Graduate)
10. Advanced CNC Machine Tools (Graduate)

Research



Selected Papers:

- 1- Motakef Imani B., Sadeghi M.H., Elbestawi M.A., "An Improved Process Simulation System for Ball-End Milling of Sculptured Surfaces", International Journal of Machine Tools & Manufacture, 1997.
 - 2- Haghghat H., Sadeghi M.H., Elbestawi M.A., "A Solid Modeler Based Ball-End Milling Process Simulation", International Journal of Advanced Manufacturing Technology, 2003.
 - 3- Sadeghi M.H., Salami Naserian R., Haghghat H., "An Instantaneous Rigid Force Model for 3-Axis Ball-End Milling of Sculptured Surfaces", International Journal of Engineering, 2003.
 - 4- Salami Naserian R., Sadeghi M.H., Haghghat H., "Feed Rate Optimization for 3-Axis Ball-End Milling of Sculptured Surfaces", International Journal of Machine Tools and Manufacture, 2007.
 - 5- Salami Naserian R., Sadeghi M.H., Abdollah A., "Static Rigid Force Model for 3-Axis Ball-end Milling of Sculptured Surfaces", International Journal of Machine Tools and Manufacture, 2007.
 - 6- Amini S., Soleymani Mehr H., Nategh M.J., Abdollah A., Sadeghi M.H., "FEM Analysis of Ultrasonic-Vibration-Assisted Turning and the Vibratory Tool", Journal of Materials Processing Technology, 2008.
 - 7- Motakef Imani B., Sadeghi M.H., Kazemi Nasrabadi M., "Anticipation of Stability Limits for 2Degree of Freedom Interrupted Milling", Journal of Mechanincs, Institute of Applied Mechanics, National Taiwan University, 2009.
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1. T. Tawakoli, M.J. Hadad, M.H. Sadeghi, A. Daneshi, S. Stöckert, A. Rasifard, An experimental investigation of the effects of workpiece and grinding parameters on minimum quantity lubrication-MQL grinding, International Journal of Machine Tools & Manufacture 49 (2009) 924-932.
 2. T. Tawakoli, M.J. Hadad, M.H. Sadeghi, Influence of oil mist parameters on minimum quantity lubrication-MQL grinding process, International Journal of Machine Tools & Manufacture 50 (2010) 521-531.

3. T. Tawakoli, M.J. Hadad, M.H. Sadeghi, Investigation on minimum quantity lubricant-MQL grinding of 100Cr6 hardened steel using different abrasive and coolant-lubricant types, *International Journal of Machine Tools & Manufacture* 50 (2010) 698-708.
4. M.H. Sadeghi, M.J. Haddad, T. Tawakoli, M. Emami, Minimal quantity lubrication-MQL in grinding of Ti-6Al-4V titanium alloy, *Int. J. Adv. Manuf. Technol.* (2009) 44:487-500.
- 10- M.H. Sadeghi, M.J. Hadad, T. Tawakoli, A.Vesali, M. Emami, An investigation on surface grinding of AISI 4140 hardened steel using minimum quantity lubrication-MQL technique, *International Journal of Material Forming*. DOI: 10.1007/s12289-009-0678-3

Students

ACADEMIC ADVISING

- Supervisor of 5 B.Sc. research projects (Graduated).
- Supervisor of 45 M.Sc. research projects (Graduated).
- Supervisor of 8 Ph.D. research projects (Graduated).
- Supervisor of 3 M.Sc. research projects (work in progress).
- Supervisor of 5 Ph.D. research projects (work in progress).

Professional Experience

PROFESSIONAL ACTIVITIES

- Head of Manufacturing Group, Mechanical Engineering Department, Tarbiat Modarres University, Tehran, Iran (Feb1991 - March1996).
- Head of Mechanical Engineering Department, Tarbiat Modarres University, Tehran, Iran (June1997-Dec1999).
- Member of the Scientific and Organizing Committee of the “2nd Annual Conf. of the Iranian Society of Mechanical Eng., Sharif University of Technology, May 1994, Tehran, Iran.
- Member of the Scientific/Organizing Committee of the 2nd ,3rd , 4th and 5th Production and Manufacturing Eng.Conf., Amirkabir University of Technology, 1993, 1995, 1998, 2003 and TICME2005, Tehran, Iran.
- Member of the Executive Committee of the Mechanical Eng. of the Alumni of Sharif University of Technology, Tehran, Iran (Feb. 1998 - Present).
- Member of the Executive Committee of the Society of Manufacturing Engineers of Iran (SMEI), Tehran, Iran (Feb. 2002- Present).