



Dr. Reza Madoliat

Professor
Department of Mechatronic
Engineering

Email: madoliat@abu.ac.ir
Tel: +9822449297



Educations:

۱- دکترا، دانشگاه ایالتی میشیگان، آمریکا

۲- فوق لیسانس، دانشگاه ایالتی میشیگان، آمریکا

۳- لیسانس، دانشگاه علم و صنعت، ایران

Areas of Research:

- فرمولبندی اجزاء محدود
- محاسبات عددی
- ارتعاشات ماشین ابزار

Paper:

Madoliat, R., Nouri, N.M., Rahrovi, A., Equalization of acoustic source using multi-pole sources and source strength estimation using inverse method, Applied Acoustics, 2016

Mirzabeigy, A., Madoliat, R., Free vibration analysis of partially connected parallel beams with elastically restrained ends, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016.

Hashemi, R., Madoliat, R., Afshar, A., Prediction of forming limit diagrams using the modified M-K method in hydroforming of aluminum tubes, International Journal of Material Forming, 2016.

Mirzabeigy, A., Madoliat, R., Large amplitude free vibration of axially loaded beams resting on variable elastic foundation, Alexandria Engineering Journal, 2016.

Madoliat, R., Khanmirza, E., Moetamedzadeh, H.R., Transient simulation of gas pipeline networks using intelligent methods, Journal of Natural Gas Science and Engineering, 2016

Nouri, N.M., Madoliat, R., Jahangardy, Y., Abdolahi, M., A study on the effects of fluctuations of the supercavity parameters, Experimental Thermal and Fluid Science, 2015

Taherinejad, M., Hosseinalipour, S.M., Madoliat, R., Steady flow analysis and modeling of the gas distribution network using the electrical analogy, International Journal of Engineering, Transactions B: Applications, 2014

Madoliat, R., Ghanati, M.F., Theoretical and experimental study of spindle ball bearing nonlinear stiffness, Journal of Mechanics, 2013

Faraji Ghanati, M., Madoliat, R., New continuous dynamic coupling for three component modeling of tool-holder-spindle structure of machine tools with modified effected tool damping, Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012

Madoliat, R., Hayati, S., Ghalebahman, A.G., Investigation of chatter suppression in slender endmill via a frictional damper, Scientia Iranica, 2011

Madoliat, R., Hayati, S., Ghalebahman, A.G., Modeling and analysis of frictional damper effect on chatter suppression in a slender endmill tool, Journal of Advanced Mechanical Design, Systems and Manufacturing, 2011

Madoliat, R., Ghasemi, A., Bilinear rectangular element matrices for diffusion problems via the inverse method, Inverse Problems in Science and Engineering, 2009

Mehrabadi, I.M., Nouri, M., Madoliat, R., Investigating chatter vibration in deep drilling, including process damping and the gyroscopic effect, International Journal of Machine Tools and Manufacture, 2009

Alibeigloo, A., Madoliat, R., Static analysis of cross-ply laminated plates with integrated surface piezoelectric layers using differential quadrature, Composite Structures, 2009

Madoliat, R., Razavi, M., Dehghani, A.R., Modeling of heat transfer in cisterns using artificial neural networks, Journal of Thermophysics and Heat Transfer, 2009

Reza Madoliat, Ahmad Ghasemi, Inverse finite element formulations for transient heat conduction problems, Heat and mass transfer. April 2007.

Reza Madoliat, Ahmad Ghasemi, operating regions for discrete models based on physical reality of diffusion problems, Journal of Thermophysics and Heat Transfer. March 2007.

S.A.A. Akbari Mousavi, H. Feizi, and R. Madoliat., Investigations on the effects of ultrasonic vibrations in the extrusion process, Journal of Materials Processing Technology. 2007.

S.A.A.Akbari Mousavi, S.M. Ebrahimi, and R. Madoliat, Three dimensional numerical analysis of asymmetric rolling, Journal of Materials Processing Technology. 2006.

A.S. Milani, A. Shanian, R. Madoliat and J.A. Nemes, The effect of normalization norms in multiple attribute decision making models, Struct Multidisc Optim. April 2005.

Conferences:

R. Madoliat, R. Narimani and H. Rahrovan, "Investigation of sheet metal forming using rubber pad forming.

R. Madoliat, A. Milani and R. Taymori, "A new procedure for the balancing of dynamic forces transferred to the base by a selected mechanism, ISME 98.

R. Madoliat, A. Milani and R.Taymori, "Analysis of impact of reflected moment of inertia on vehicle`s overdrive., ISME 98.

R. Madoliat and R. Abedi, "Time step criteria for time dependent heat conduction problems by using FEM, ISME 98.

Teaching Subject:

- Numerical Methods
- Engineering Optimization
- Finite Element Methods
- Dynamics of Machinery
- Engineering Mathematics II