

Curriculum Vitae of Professor A Darvizeh

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EDUCATION

- 1978-1982 PhD in Mechanical Engineering (High Rate Energy Forming), The University of Manchester (UMIST), Manchester, UK.
- 1978-1979 M.Sc. in Mechanical Engineering, The University of Manchester (UMIST), UK.
- 1973-1974 B.Sc.(First Class Honors) in Mechanical Engineering, Iran University of Science and Technology, Tehran, Iran.

ACADEMIC EXPERIENCE

- 1974-1977 Lecturer in Strength of Materials and Machine Design, Department of Mechanical Engineering, K.N.T University of Technology.
- 1983-1995 Assistant Professor, Department of Mechanical and Civil Engineering, Guilan University, Sharif University of Technology and K.N.T University of Technology.
- 1990-1991 Academic Visitor/Sabbatical leave, Department of Mechanical Engineering, UMIST,UK.
- 1995-2002 Associate Professor, Department of Mechanical Engineering, Guilan University.
- 2004-2005 Academic Visitor/Sabbatical leave, Department of Mechanical Engineering, UMIST,UK.
- 2002-Present Professor, Department of Mechanical engineering, Guilan University.

ACADEMIC POSITION

2011-Present Founder and Head of Biomimetic Engineering Group, Guilan.
1995-2003 Pro-Vice-Chancellor for Research at the University of Guilan.
1985-1991 Head of Mechanical Engineering Department, Guilan.
1990-1991 Head of Faculty of Engineering, Guilan University.

HONORS

1. Distinguished Mechanical Engineering Professor of Iran, 2006.
2. Distinguished Professor of Guilan University, 2003.
3. Distinguished Associate Professor of Iran, 1996.
4. Distinguished Author of Guilan University, 1995.
5. Distinguished Assistant Professor of Guilan University, 1993.

TEACHING AREAS

1. Strength of Materials (I,II,III) (Undergraduate Level)
2. Machine Design (I,II) (Undergraduate Level)
3. Engineering Theory of Elasticity (Undergraduate/ Graduate Level)
4. Engineering Theory of Plasticity (Graduate Level)
5. Theory of Plates and Shells (Graduate Level)
6. Impact Engineering (Graduate Level)
7. Selected Topics in Solid Mechanics (Graduate Level)
8. History and Philosophy of Science (Undergraduate/ Graduate Level)

RESEARCH INTERESTS AND ACTIVITIES

1. Design and Nature (Biomimetic Engineering).
2. Explosive Welding of Metallic Components and Production of Multilayered Plate and Cylindrical Composites.
3. Explosive Cutting of Metals by Shaped Charges and Stress Waves Interaction.
4. Dynamic Powder Compaction (Explosive Compaction of Metallic and non Metallic Powdered Materials. Electrical Discharge Compaction. Electromagnetic Compaction).
5. Explosive Forming of Metallic Components (Ring Expansion, Tube Forming and Cone Forming).
6. Experimental and Numerical Investigation of High Rate Plastic Deformation of Rings, Plates, Beams and Cylindrical Tubes.

PATENTS

- Design and construction of a system for high rate dynamic deformation of circular plates using gas mixture as a source of external energy. Patent No. 31735, June 2005.

BOOKS

1. **A. Darvizeh**, Introduction to Explosive Welding, 1985.
2. **A. Darvizeh**, Introduction to Electro – Magnetic Forming, 1989.
3. **A. Darvizeh**, Introduction to Powder Compaction Methods, 1989.
4. **A. Darvizeh**, Stress Analysis in Thick Spherical and Cylindrical Shells, 1993.
5. **A. Darvizeh**, M. Darvizeh, Torsion of non Circular Section, 1994.
6. **A. Darvizeh**, M. Darvizeh, Engineering Solid Mechanics Vol I, 1997.
7. **A. Darvizeh**, M. Darvizeh, Engineering Solid Mechanics Vol II, 1998.
8. **A. Darvizeh**, M. Darvizeh, Engineering Solid Mechanics Vol III, 2000.
9. **A. Darvizeh**, M. Darvizeh, Engineering Solid Mechanics Vol IV, 2000.
10. M. Shakery, **A. Darvizeh**, M. Darvizeh, Impact Mechanics, Vol I, 1999.
11. M. Shakery, **A. Darvizeh**, Impact Mechanics, Vol II, 2000.
12. **A. Darvizeh**, M. Shakery, Impact Mechanics, Vol III, 2000.
13. **A. Darvizeh**, M. Shakery, Impact Mechanics, Vol IV(to be published).
14. M. Darvizeh, **A. Darvizeh**, Mechanical Vibration, VOL I, 1994.
15. M. Darvizeh, **A. Darvizeh**, Mechanical Vibration, VOL II, 1998.
16. M. Darvizeh, **A. Darvizeh**, M. Shenassa, Advanced Engineering Mathematics, 1998.

RECENT JOURNAL PAPERS

1. Sharma, C.B., Darvizeh, M., **Darvizeh, A.**, "Dynamic Radial Loading of Thin GRP Tubes", Thin-Walled Structures, Vol. 26, No. 4, PP. 315-324, 1996.
2. Sharma, C.B., Darvizeh, M., **Darvizeh, A.**, "Natural Frequency Response of Vertical Cantilever Composite Shells Containing Fluid", Engineering Structures, Vol. 20, No. 8, PP. 732-737, 1998.
3. Sharma, C.B., Darvizeh, M., **Darvizeh, A.**, "Free Vibration Behaviour of Helically Wound Cylindrical Shells", Composite Structures, Vol. 44, No. 1, PP. 55-62, 1999.
4. Darvizeh, M., **Darvizeh, A.**, "Buckling Analysis of Composite Plates Using Differential Quadrature Method (DQM)", Steel and Composite Structures, Vol. 2, No.2, PP. 99-112, 2002.
5. **Darvizeh, A.**, Darvizeh, M., Ansari, R., "The Effect of Radius Variations on Buckling of Fibrous Composite Structures Subjected to Different Types of Loading". Iranian Journal of Science and Technology, 2002.
6. **Darvizeh, A.**, Liaghat, G.H., Nouri, M.D., "Two Dimensional FE Simulation of High Rate Deformation of Explosive Welding Process". Modarres Journal of Technical and Engineering, 2002.
7. Liaghat, G., Nouri, M.D., **Darvizeh, A.**, Al-Hassani, S.T.S., Korkmaz, "The Effect of Impact Parameter on Explosive Welding to a Plug", Int Journal of Engineering, IRI, 2002.
8. Narimanzadeh, N., **Darvizeh, A.**, "Design of Fuzzy Systems for the Modeling of Explosive Cutting Process of Plates Using Singular Value Decomposition", Iranian Journal of Science & Technology, Shiraz University, IRAN, 2002.
9. Narimanzadeh, N., **Darvizeh, A.**, Felezi, M. E., Gharababaei, "Polynomial Modeling of Explosive Compaction Process of Metallic Powders Using GMDH- Type Neural

- Networks and Singular Value Decomposition", Modeling and Simulation in Materials Science and Engineering, Vol. 10, PP. 727-744, 2002.
10. **Darvizeh, A.**, Narimanzadeh, N., Oliaei, F., "Genetic and SVD Design of Fuzzy Systems for the Modeling and Prediction of Process Parameters of Explosive Cutting Process", Modarres Journal of Technical and Engineering", No. 12, pp 88-106, 2003.
 11. Narimanzadeh, N., **Darvizeh, A.**, Dadfarmai, M. H., "ANFIS Network Design Using Hybrid Genetic and SVD Methods for Modeling and Prediction of Explosive Cutting Process", Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 2003, (Accepted for Publication).
 12. Ghannadzadeh, A., **Darvizeh, A.**, "Shock loading Effect of the Corrosion Properties of Low – Carbon Steel", Materials Chemistry and Physics, Vol. 82, PP. 78-83, 2003.
 13. Narimanzadeh, N., **Darvizeh, A.**, Gharababaei, H., " Modeling and Prediction of Process Parameters in Explosive Welding of Plates Using GMDH – Type Neural Network and Singular Value Decomposition", Iranian Journal of Science and Technology, Vol. 27, No. B3, PP. 551-562, 2003.
 14. Darvizeh, M., **Darvizeh, A.**, Ansari, R., Sharma, C. B., "Buckling of Fibrous Composite Cylindrical Shells with Non- Constant Radius Subjected to Different Types of Loading" Iranian Journal of Science and Technology, Vo. 27, No. B3, PP. 535-550, 2003.
 15. Darvizeh, M., **Darvizeh, A.**, Ansari, R., Sharma, C. B., "Buckling Analysis of Generally Laminated Composite Plates (Generalized Differential Quadrature Rules Versus Rayleigh – Ritz Method)" Composite, Vol. 63, PP. 69-74, 2003.
 16. Darvizeh, M., Haftchenari, H., **Darvizeh, A.**, Ansari, R., Alijani, A., " The effects of piezoelectric on buckling behavior of composite cylinders", WSEAS Transactions on Information Science and Applications, Vol. 2, No. 8, PP. 1195-201, 2005.
 17. Narimanzadeh, N., **Darvizeh, A.**, Jamali, A., Moeini, A., " Evolutionary design of generalized polynomial neural networks for modeling and prediction of explosive forming process" , Journal of Materials Processing Technology, Vol. 164-165, PP. 1561-1571, 2005.
 18. Darvizeh, M., Haftchenari, H., **Darvizeh, A.**, Ansari, R., Sharma, C.B., " The effect of boundary conditions on the dynamic stability of orthotropic cylinders using a modified exact analysis", Composite Structures, Volume 74, Issue 4, PP. 495-502, 2006.
 19. Haftchenari, H., Darvizeh, M., **Darvizeh, A.**, Ansari, R., Sharma, C.B., " Dynamic analysis of composite cylindrical shells using differential Quadrature method (DQM)", Composite Structures, Vol. 78, Issue 2, PP. 292-298, 2007.
 20. M. Darabi, M., Darvizeh, M., **Darvizeh, A.**, "Non-linear analysis of dynamic stability for functionally graded cylindrical shells under periodic axial loading ", Composite Structures, Vol. 83, Issue 2, PP. 201-211 , April 2008.
 21. Alitavoli, M., **Darvizeh, A.**, "High rate electrical discharge compaction of powders under controlled oxidation", Journal of Materials Processing Technology, Vol. 209, Issue 7, PP. 3542-3549, 1 April 2009.
 22. Jamali, A., Nariman-zadeh, N., **Darvizeh, A.**, Masoumi, A., Hamrang, S., " Multi-objective evolutionary optimization of polynomial neural networks for modelling and prediction of explosive cutting process", Engineering Applications of Artificial Intelligence, Vol. 22, Issues 4-5, PP. 676-687 , June 2009.
 23. Darvizeh, M., **Darvizeh, A.**, Rajabi, H., Rezaei, A., "Free Vibration Analysis of Dragonfly Wing using Finite Element Method", Int. J. Multiphysics, Vol. 3, No. 1, 2009.

25. Babaei, H., **Darvizeh, A.**, “Analytical and experimental studies for deformation of circular plates subjected to blast loading”, *Journal of Mechanical Science and Technology*, Vol. 24, Issue , PP. 1855-1864, 2010.
26. Babaei, H., Nariman-zadeh, N., **Darvizeh, A.**, “A Simple Modelling Method for Deflection of Circular Plates under Impulsive Loading using Dimensionless Analysis and Singular Value Decomposition”, *Int. J. Mechanics*, Vol. 26, Issue 3, PP. 355-361, 2010.
27. Khalkhali, A., **Darvizeh, A.**, Masoumi, A., Nariman-Zadeh, N., Shiri, A., “Robust Design of S-Shaped Box Beams Subjected to Compressive Load”, *Mathematical Problems in Engineering*, Volume 2010.
28. Zajkani, A., sefidi shirkoochi, H., Darvizeh, **A., Darvizeh, M.**, Babaei, H., “ Mathematical Modeling of Large-Amplitude Dynamic-Plastic Behavior of Circular Plates Subjected to Impulsive Loads” , *Journal of Mechanics*, Vol. 26, Issue 04, pp 533-546, December 2010.
29. Babaei, H., **Darvizeh, A.**, “Investigation into the Response of fully clamped circular Steel, Copper, and Aluminium Plates Subjected to Shock Loading”, *Int. J. Mechanics Based Design of Structure and Machines*, Vol. 39, Issue 4, PP. 507-526, 2011.
30. Khalkhali, A., Masoumi, A., **Darvizeh, A.**, Jafari, M., Shiri, A., “Experimental and Numerical Investigation into the Quasi-Static Crushing Behaviour of the S-Shape Square Tubes”, *Journal of Mechanics*, Vol. 27, Issue 4, PP. 585-596, December 2011.
31. Rezaei Mojdehi, A., **Darvizeh, A.**, Basti, A., Rajabi, H., “Three dimensional static and dynamic analysis of thick functionally graded plates by the meshless local Petrov–Galerkin (MLPG) method”, *Engineering Analysis with Boundary Elements*, Vol. 35, Issue 11, PP. 1168-1180, November 2011.
32. Rajabi, H., Moghadami, M., **Darvizeh, A.**, “Investigation of Microstructure, Natural Frequencies and Vibration Modes of Dragonfly Wing”, *Journal of Bionic Engineering*, Vol. 8, Issue 2, PP. 16g-173, June 2011.
33. Rezaei, A., Alitavoli, M., **Darvizeh, A.**, Rajabi, H., “Modeling and Simulation of Spider"s Walking”, *Int. J. Nature & Design & Ecodynamics*, Vol. 6, No. 2, 2011.
34. Naghavi, S.M., **Darvizeh, A.**, Ansari, R., “Comparison of Welding Distortions between TIG and MIG Welding Technique in Pipes”, *Applied Mechanics and Materials*, Vols. 110-116, PP. 1741-1747, 2012.
35. Faghih Shojaei, M., Mohammadi, V., Rajabi H., **Darvizeh, A.**, “Experimental analysis and numerical modeling of mollusk shells as a three dimensional integrated volume”, *Mechanical Behavior of Biomedical Materials*, Vol. 16, PP. 38–54, 2012.
36. Rajabi, H., **Darvizeh, A.**, “Elasto-Plastic Analysis of Thick Cylinders Subjected to Internal Electro-Magnetic Loading”, *Journal of Mechanics*, Vol. 3, PP. 423-430, September 2012.
37. Ansari, R., Hosseini, K., **Darvizeh, A.**, Daneshian, B., “A sixth-order compact finite difference method for non-classical vibration analysis of nanobeams including surface stress effects”, *Applied Mathematics and Computation*, Vol. 219, Issue 10, PP. 4977-4991, January 2013.
38. Zajkani, A., Darvizeh, M., **Darvizeh, A.**, “Analytical modeling of high-rate elasto-viscoplastic deformation of circular plates subjected to impulsive loads using pseudo-spectral collocation method”, *Journal of Strain Analysis for Engineering Design*, February 2013.
39. Pilafkan, R., Folkow, P., Darvizeh, M., **Darvizeh, A.**, “Three dimensional frequency analysis of bidirectional functionally graded thick cylindrical shells using a radial point interpolation method (RPIM)”, *European Journal of Mechanics - A/Solids*, Vol. 39, PP. 26-34, May–June 2013.
40. Sahmani, S., Ansari, R., Gholami, R., **Darvizeh. A.**, “Dynamic stability analysis of functionally graded higher-order shear deformable microshells based on the modified couple stress elasticity theory”, *Composites Part B: Engineering*, Vol. 51, PP.44-

53, August 2013.

41. Zajkani, A., Darvizeh, M., **Darvizeh, A.**, Ansari, R., "Incremental integrated modeling of dynamic viscoplastic responses of the annular sector plates exposed to shock wave loading", *The Journal of Strain Analysis for Engineering Design*, 2013, accepted in (05-Aug-2013).
42. Zajkani, A., Nikooyiha, M., Darvizeh, M., **Darvizeh**, "Effective rigid perfectly plastic models to predict deflection and residual velocity of post local failure motion of impulsively loaded circular plates", *International Journal of physical sciences*, Vol. 8 (12), pp.459-480, accepted at 30 March 2013.
43. Zajkani, A., Darvizeh, M., **Darvizeh, A.**, Ansari, R., "Prediction of Pre and Post-Failure Behaviors of Circular Plates Subjected to Impulsive Loads Using Limit Analyses of Deformation", *Energetic Materials* ,Accepted: 05/20/2013.
44. Rajabi, H., & Darvizeh, A., "Experimental investigations of the functional morphology of dragonfly wings", *Chinese Physics B*, 2013, 22(8), 088702.

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2. Darvizeh, A., AL- Hassani, S.T.S., "Shaping and Comp action of Powders by EDC", Int. Conf. on Powder Shaping and Compaction, Cavendish, England, 1987.
3. Darvizeh, A "Explosive Welding of Multi – Layered C omposite" 1st ISME Conf. University of Tehran. 1993.
4. Darvizeh, A., AL- Hassani, S.T.S, "Forming Ceramic – Metal Composites by EDC Compaction process", 1st Conf on Ceramic, University of Science and Technology, Tehran, Iran 1993.
5. Darvizeh, A. "Explosive Powder Compaction" 2nd Annual ISME Conf. Sharif University, 1994.
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7. Sharma, C.B., Darvizeh, M., Darvizeh, A., "Elastic Stability of Thin Composite Tubes", 5th International Conference on Composite Engineering Las Vegas Nevada, July 5-11 1998.
8. Darvizeh, A., Darvizeh, M., "Buckling Analysis of Multi – Layered Composites Tubes Subjected to Different Types of Loading with Different Boundary Conditions", 2nd pacific – Asian Conference on Mechanical Engineerin g, Manila Philippines, Sep 9-11 1998.
9. Darvizeh, M., Darvizeh, A., Malakzadeh, K., "Static & Dynamic Analysis of Composite Plates with Different Boundary Conditions", 2nd Pacific – Asian Conference on Mechanical Engineering, Manila, Philippines, Sep. 9-11 1998.
10. Darvizeh, A., Darvizeh, M., "Dynamic Stability Analysis of Helically Wound Tubular Structures", International Conference on Advanced Composite, Hurgadeh , Egypt, Dec 15-18 1998.
11. Darvizeh, A., Rahimi Rad , K., "Prediction of Final State of Explosively Welded Components & Initial Parameters", 3rd Int. Mech. Eng. Conf., Univ. of Science & Technology, Iran, May 18-21 1999.
12. Darvizeh, M., Darvizeh, A., Ansari, R., "Buckling Analysis of Composite Fibrous Tubes

- Under Now- Uniform Loading", 1st International Conference on Structural Engineering & Mechanics, Seoul Korea, August 23-25 1999.
13. Darvizeh, M., Darvizeh, A., Ansari, R. ,"The Effect of Radius Variations on Buckling", 1st International Conference on Structural Engineering & Mechanics, Seoul Korea, August 23-25 1999.
 14. Darvizeh, M., Darvizeh, A., Ansari, R.,"Buckling Analysis of Composite Fibrous Tubes Under Now – Uniform Loading", 4th Int. Conf. of Iranian Soc. of Mech. Eng, Sharif Univ. of Tech. Iran, May 16-19 2000.
 15. Darvizeh, A., Darvizeh, M., "Thermo – Mechanical Modeling of Neck Formation & Growth in the Electrical Discharge Compaction", 4th Int. Conf. of Iranian Soc. of Mech. Eng. Sharif Univ. of Tech Iran, May 16-19 2000.
 16. Darvizeh, A., Darvizeh, M., yadgary, A., " Modeling of Explosive Cutting Process of plates by Shaped Charge", 1st Int. Conf. of the Iranian Aerospace Society, Sharif Univ. of Tech, Iran, Dec 30- Jan 1 – 2001.
 17. Narimanzadeh, N., Darvizeh, A., "RBFNs Modeling of Explosive Cutting Process of Plates Using Hybrid Genetic Algorithms" , AIDA 2001 Symposium, University of Wales UK, February 23 – 2001.
 18. Darvizeh, A., Narimanzadeh, N. ,Gharababei, H. ," GMDH – Type Neural Network Modeling of Explosive Cutting Process of Plates Using Singular Value Decomposition", 15th European Simulation Multi Conference, Prague, Czech Republic, June 9-2001.
 19. Darvizeh, M. ,Darvizeh, A. ,Sharma, C. B. ,"Buckling Analysis of Composite Plates Using Differential Quadrature Method (DQM)", First International Conference on Steel & Composite Structures, Pusan, Korea, Jun 14 -16 2001.
 20. Ghannadzadeh, A. ,Darvizeh, A., Shahsavari, F., Ghannadzadeh, H., Mohammadi, K., "Effect of Shock Loading on the Corrosion Properties of Aluminum Metal" , 5th Int. & 9th Annual Mech. Engineering Conf., Guilan Univ. Rasht, Iran, may 27 – 29 2001.
 21. Narimanzadeh, N., Darvizeh, A., "Hybrid Genetic RBFNs for the Modeling of Explosive Cutting Process of Plates", 5th Int. & 9th Annual Mech. Engineering Conf., Guilan Univ., Rasht Iran, May 27 -29 2001. Darvizeh, A., Darvizeh, M., "The Effect of oxide Thickness on the High Rate EDC Compaction Process", 5th Int. 9th Annual Mech. Engineering Conf. Guilan Univ. Rasht, Iran, May 27 -29 2001.
 23. Darvizeh, A., "Forming Ceramic – Metal Composites by High Rate EDC Compaction Process", 5th Int. & 9th Annual Mech. Engineering Conf. Guilan Univ., Rasht, Iran, May 27 – 29, 2001.
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 26. Darvizeh, M., Darvizeh, A., Ansari, R.,Sharama, C. B., "The Effect of Boundary Condition on Dynamic Stability of Orthotropic Cylinders Using Modified Exact Analysis", 2nd International Conference on Advances in Structural Engineering & Mechanics, Korea, August 21 – 23 2002.
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31. Alp, T., Darvizeh, A., Al- Hassani ,S.T.S, " Performing of Metal – Polymer Composites by EDC Compaction Process", Int. J. Powder Metall. Vol. 31, No.3,
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36. Darvizeh, A., Rajabi, H., Khaheshi, A., Sobhani, M., Etedadi, J., "Investigation of bee wing composite structure: A scanning electron microscopy study and numerical analysis", Book of Abstracts, International Bionic Engineering Conference, Boston-USA, 18-20, September 2011.
37. Darvizeh, A., Rajabi, H., Khaheshi, A., Sobhani, M., Etedadi, J., "Morphological and numerical investigations of butterfly wing composite structure", Book of Abstracts, International Bionic Engineering Conference, Boston-USA, 18-20, September 2011.
38. Darvizeh, A., Rajabi, H., Khaheshi, A., "Biomechanical aspects of dragonfly wing composite structure", Book of Abstracts, International Bionic Engineering Conference, Boston-USA, 18-20, September 2011.
39. Rajabi, H., Darvizeh, A., Rezaei, N., Sharifi, F., Shahnazari, A., "Experimental and numerical studies on composite microstructure of *Otala lactea's* shell", The 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-3), Tehran-Iran, 18-19 December 2012.
40. Daryadel, S., Rajabi, H., Darvizeh, A., "Experimental and numerical investigations on quail eggshells composite structure", The 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-3), Tehran-Iran, 18-19 December 2012.
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And More than 120 conference and journal papers written in Persian and

Presented at National and International Conferences (which are not listed)