

**Mohammad Hossein YaS**

**Professor**

**Department of Mechanical Engineering**

**Engineering Faculty**

**Razi University**



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### **1-PERSONAL PARTICULARS:**

Surname: Yas

First name: Mohammad Hossein

Nationality: Iranian

Status : Married, Two children

### **2-EDUCATION**

| <u>Degree</u> | <u>Course</u>   | <u>Year</u> | <u>University</u>                     |
|---------------|-----------------|-------------|---------------------------------------|
| • PhD         | Mechanical Eng. | 1996        | Amir-Kabir University, Tehran / Iran  |
| • MS          | Mechanical Eng. | 1987        | Amir-Kabir, University, Tehran / Iran |
| • BS          | Mechanical Eng. | 1985        | Amir-Kabir University , Tehran / Iran |

### **III.THESES TITLES:**

- **BS-** Design of a Hydraulic Press
- **MS-** Technical Investigation of 50 cc Engine of Bravo for NMI Company
- **PhD:** Three-Dimensional Dynamic Analysis of Composite Laminated Shell of Revolutions

### **Working Experiences**

| <b><u>Name and Place</u></b> | <b><u>Year</u></b> | <b><u>Position</u></b>                |
|------------------------------|--------------------|---------------------------------------|
| NMI Company                  | 1985-1987          | Design Engineer                       |
| Shaeed-Bagheree Factory      | 1987-1990          | Technical Manager                     |
| Firouza Company              | 1990-1995          | Design Engineer For<br>Special Cranes |

### **IV.EMPLOYMENT:**

| <b><u>Name and Place</u></b>                                               | <b><u>Year</u></b> | <b><u>Position</u></b> |
|----------------------------------------------------------------------------|--------------------|------------------------|
| • Dept. of Mechanical Eng.<br>Razi University,<br>Kermanshah, Iran         | 1997 - 2007        | Assistant Professor    |
| • Dept. of Mechanical Eng.<br>Razi University,<br>Kermanshah, Iran         | 2007- 2011         | Associate Professor    |
| • Dept. of Mechanical Eng.<br><br>Razi University,<br><br>Kermanshah, Iran | 2011 - now         | Professor              |

### **V.TEACHING EXPERIENCE:**

#### **-Undergraduate Courses Taught**

Machine Elements Design , Strength of Materials, Mechanical Behavior of composite Materials, Design of Internal Combustion Engines , Chassis and Body Design of Vehicles

#### **-Graduate Courses Taught**

Continuum Mechanic, Theory of plate & Shell, Finite Element, Elasticity, Theory of laminated composite plate & shell, Thermoelasticity, Advanced Mechanics of composite materials

### **VI.RESEARCH Interests:**

- Structural Dynamic, Elasticity, Mechanical Behavior of Composite and Smart Materials, Automated Manual Gearbox for Vehicles, Stacking Sequence Optimization

### **VII.AWARDS:**

1. Distinguished Researcher in Razi University , 2005

2. Distinguished Researcher in Razi University, 2006
3. Distinguished Researcher in Razi University, 2007
4. Distinguished Researcher in Razi University, 2010
5. Distinguished Researcher in Razi University, 2011
6. Distinguished Researcher in Razi University, 2012
7. Distinguished Researcher in Razi University, 2013

## **JOURNAL PAPERS:**

**1-M.Shakeri, M.H.Yas** " Elasticity Solution and Free Vibrations Analysis of Laminated Anisotropic Cylindrical Shell" Structural Engineering and Mechanics An International Journal Vol.7 , No.2 , 1999,

**2- M.Shakeri, M.H.Yas** "Three-Dimensional Axisymmetric Vibration of Orthotropic and Cross-ply Laminated Hemispherical Shells " Iranian Journal of Science and Technology Trans B Engineering Vol. 2.6, No.B3, 2002,

**3- M.H.Yas, M.Shakeri, , A.Ghasemi-Gol** "Optimal Stacking Sequence of Laminated Cylindrical Shells Using Genetic Algorithm" Mechanics of Advanced Materials and Structure Vol.12, No.4, 2005,

**4- M.Shakeri, M.H.Yas, M.R.Saviz** "Three-Dimensional Elasticity Solution for Thick Laminated Cylinder with Piezoelectric Layer" Iranian J. of Mechanical Engineering Transaction of ISME Vol.16 No.2 , 2005 ,

**5- M.H.Yas, R.Nabavi, M.Shakeri** "Natural frequency optimization of a laminated cylindrical shell with failure criteria constraint using penalty method" Journal Key Engineering Materials, Vol. 334 March 2007,

**6- M.H.Yas, M.Shakeri, M.R.Saviz** "Elasticity solution of laminated cylindrical shell with piezoelectric layer under local ring load" Journal Key Engineering Materials, Vol. 334 March 2007, (ISI Journal)

**7- M.H.Yas, M.Shakeri, A. Ghasemi-Gol** "Two -objective stacking sequence optimization of a cylindrical shell using genetic algorithm" International Journal of Science & Technology, Vol.14, No.5, PP. 499-506, 2007,

**8- M.Shakeri, M.H.Yas, M.Salehi, M.Aghdam** "Diversity in the mechanical engineering education " Iranian Journal of Engineering Education, No.33, 1386

**9- A.Saviz, M.Shakeri, M.H.Yas** " Electro elastic fields in a layered piezoelectric cylindrical shell under dynamic load" J. Smart Materials & Structures, No.16, PP.1683-1695, 2007,

**10- A.Saviz, M.Shakeri, M.H.Yas** " Three- Dimensional elasticity analysis of a laminated cylindrical shell with piezoelectric layer under dynamic loads" J. Mechanical Engineering Science , Part C, No. 12 , PP.1507-1519, 2007

**11. M.H.Yas, M.Shakeri, N. Khaksar** " Stacking Sequence Optimization of a Composite

Cylindrical Shell for Vibrations by Hybrid Continuous Optimization" J. Mechanical Engineering Science, Part C, Vol.222, No.12, PP. 2385-2394, 2008,

**12- A.Saviz, M.Shakeri, M.H.Yas** " Layer wise Finite Element Analysis of Laminated Cylindrical Shell with Piezoelectric Rings under Dynamic Load" J. Mechanics of Advanced Materials and Structures, Vol.16, Issue 1, PP.20-32, 2009,

**13- M.H.Yas, B. Sobhani,** "Three- Dimensional analysis for thermo elastic response of functionally graded fiber reinforced cylindrical panel" Composite Structures, 92, 2391-2399, 2010

**14- M.H.Yas, B. Sobhani,** " Three-Dimensional free vibration of functionally graded fiber orientation and volume fraction cylindrical panels" Material & Designs, 31, 4543-4552, 2010

**15- M.H.Yas, B. Sobhani,** " Three-dimensional analysis of thermal stresses in four-parameter continuous grading fiber reinforced cylindrical panels" Int. J. of Mechanical Science, 52, 1047-1063, 2010

**16- M.H.Yas, B. Sobhani** " Static and free vibrations of continuous fiber reinforced cylindrical shells" Acta Mechanica, 215, 155-173, 2010,

**17- M.H.Yas, K.Garmsiri** " Three-Dimensional free vibration Analysis of cylindrical shells with continuous grading reinforcement " Steel and Composite Structures An Int. J. 10(4), 349-360, 2010,

**18- فعلی ، یاس، عسگری** " تحلیل صفحات دو لایه سرامیک – کامپوزیت تحت ضربه بالستیک عمودی پرتابه های استوانه ای" نشریه پژوهشی مهندسی مکانیک ایران ، سال دوازدهم ، جلد اول، شماره 18، بهار 1389

**19- M.H.Yas, B. Sobhani** " Free vibration Analysis of continuous grading fiber reinforced Plates on elastic foundation " Int.J. of Engineering Science 48, 1881-1895, 2010

**20- S. Feli, M.H.Yas, Asgari,** "An analytical model for perforation of ceramic / multi-layered planar woven fabric targets by blunt projectiles" Composite Structures, 93, 548-556, 2011

**21- M.H.Yas, M.Shakeri, M. Khanjani,** "Layer wise finite element analysis of functionally graded hollow thick cylinder with piezoelectric ring" Accepted for publication in Mechanical Engineering Science, Part C 225, 1045-1060, 2011

**22- M.H.Yas, M.Shakeri, M.Heshmati, S.Mohammadi,** "Layer wise finite element analysis of functionally graded cylindrical shell under dynamic load" Accepted for publication in J. of mechanical science and technology 25(3), 597-604, 2011

**23- M.H.Yas, B. Sobhani, M.Heshmati,** " Three-dimensional free vibration of functionally graded fiber reinforced cylindrical panels using differential quadrature method" Accepted for publication in Structural Engineering and Mechanics An Int. Journal 37(5), 2011

**24- M.H.Yas, B. Sobhani,** " Three-dimensional free vibration analysis of four-parameter continuous grading fiber reinforced cylindrical panels resting on Pasternak foundations" Accepted

for publication in Archive of Applied Mechanics 81, 1759-1779, 2011

25- **M.H.Yas**, B. Sobhani, " Elasticity solution for free vibration of four -parameter functionally graded fiber orientation cylindrical panels using differential quadrature method" Accepted for publication in European Journal of Mechanics A/ Solids 30, 631-638, 2011

26- **M.H.Yas**, B. Sobhani, "Effect of continuously grading fiber orientation face sheets on vibration of sandwich panels with FGM core" Int. J. Mech. Science, 53, 628-638, 2011

27- **M.H.Yas**, V.Tahounch,"3D free vibration analysis of thick functionally graded annular plates on Pasternak elastic foundation via differential quadrature method (DQM), Acta Mechanica, 223, 43-62, 2012

28- **M.H.Yas**, V.Tahounch "3D free vibration analysis of thick functionally graded annular sector plates on Pasternak elastic foundation via 2-D differential quadrature method (DQM), Acta Mechanica, 223, 1879-1897, 2012

29- **M.H.Yas**, M.Heshmati."Dynamic analysis of functionally graded nanocomposite beams reinforced by randomly oriented carbon nanotube under the action of moving load"Applied mathematical modeling, 36, 1371-1394, 2012

30- **M.H.Yas**, A.Jodaei, S.Irandoust, M.Nasiri aghdam,"Three- dimensional free vibration analysis of functionally graded piezoelectric annular plates on elastic foundations" Meccanica, 47, 1401-1423, 2012

31- **M.H.Yas**, A.Jodaei, Three-dimensional free vibration analysis of functionally graded annular plates on elastic foundations via state-space based differential quadrature method" J. Pressure vessel and Technology, 134, 1-17, 2012

32- A.Jodaei, M.Jalal, **M.H.Yas**, "Free vibration analysis of functionally graded annular plates by state-space based differential quadrature method and comparative modeling by ANN" Composite Part B, 43,340-353, 2012

33- **M.H.Yas**, N.Samadi,"Free vibrations and buckling analysis of carbon nanotube reinforced composite Timoshenko beams on elastic foundation" Int. J. Pressure vessel and piping, 98, 119-128, 2012

34- **M.H.Yas**, M.Heshmati, "Vibrations of non-uniform functionally graded MWCNTs-polystyrene nanocomposite beams under action of moving load "Materials and design , 46, 206-218, 2013

35- **M.H.Yas**, S.Kamarian, J. E. Jam, A.Pourasghar " Optimization of functionally graded beams resting on elastic foundations" Journal of Solid Mechanics, 3(4), 365-378, 2011

36- A.Jodaei, M.Jalal, **M.H.Yas**" Three-dimensional Free Vibration Analysis of Functionally Graded Piezoelectric Annular Plates via SSDQM and Comparative Modeling by ANN" Mathematical and Computer Modelling, 57, 1408-1425, 2013

37- **M.H.Yas**, V.Tahounch, "Semi-analytical solution for three-dimensional vibration of thick continuous grading fiber reinforced (CGFR) annular plates on Pasternak elastic foundation with arbitrary boundary

conditions on their circular edges” *Meccanica*, 48(1), 2013

38- **M.H.Yas**, M.Heshmati, "Dynamic analysis of non-uniform functionally graded MWCNTs-polystyrene nanocomposite beams under action of moving load “ *Materials and design*, 49, 894-904, 2013

39- **M.H.Yas**, A.Pourasghar, , S.Kamarian, M.Heshmati, “Free vibration analysis of functionally graded nanocomposite cylindrical panel reinforced by carbon nanotube” *Materials and design*, 49, 583-590, 2013

40- B. Sobhani Aragh, **M.H. Yas**, M. Abdel wahab, “3-D thermo-elastic solution for continuously graded isotropic and fiber-reinforced cylindrical shells resting on elastic foundations” *Applied Mathematical Modelling*, 37, 6556-6576, 2013

41- S.Kamarian, **M.H.Yas**, , A.Pourasghar “ Free Vibrations of Continuous Grading Fiber Orientation Beams on Variable Elastic Foundations” *Journal of Solid Mechanics*, 4(1), 75-83, 2012

42- S.Kamarian, A.Pourasghar, **M.H.Yas**, “Free vibration analysis of three-parameter FGM sandwich plates resting on Pasternak foundations “*Journal of Sandwich Structures and Materials*, 15(3), 292-308, 2013

43- S.Kamarian, A.Pourasghar, **M.H.Yas**, “Eshelby-Mori-Tanaka approach for vibrational behavior of functionally graded carbon nanotube-reinforced plate resting on elastic foundation” *Journal of mechanical science and technology*, 27 (11), 3395~3401, 2013

44- **M.H.Yas**, M.Heshmati, “Free vibration analysis of functionally graded CNT-reinforced nanocomposite beams using Eshelby–Mori–Tanaka approach” *Journal of mechanical science and technology*, 27(11), 3403-3408, 2013

45- A.Pourasghar, **M.H.Yas**, S.Kamarian, M.Heshmati, “Free vibration analysis of functionally graded nanocomposite cylindrical panel reinforced by carbon nanotube ” *Polymer Composites*, 34(5), 2013

46- S. Kamarian, **M.H. Yas**, A. Pourasghar, “Frequency Analysis of FG Sandwich Rectangular Plates with a Four-Parameter Power-Law Distribution” *Journal of solid Mechanics*, 5(2), 161-173, 2013

47- S.Kamarian, **M.H.Yas**, A.Pourasghar, “Volume Fraction Optimization of Four-Parameter FGM Beams Resting on Elastic Foundation” *International Journal of Advanced Design and Manufacturing Technology (ADMT)*, 6(4), 75-82, 2013

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48- **M.H.Yas**, S.Kamarian, A.Pourasghar," Application of imperialist competitive algorithm and neural networks to optimize the volume fraction of three-parameter functionally graded beams" *Journal of Experimental & theoretical artificial intelligence*, 26 (1), 1-12, 2014

49- S.Kamarian, **M.H.Yas**, A.Pourasghar,” Application of firefly algorithm and ANFIS for optimisation of functionally graded beams” *Journal of Experimental & theoretical artificial intelligence*, 1, 1-8, 2014

50- V. Tahounch , **M. H. Yas**, Semianalytical Solution for Three-Dimensional Vibration 2

Analysis of Thick Multidirectional Functionally Graded Annular Sector Plates under Various Boundary Conditions” Journal of mechanical Engineering, 140(1),31-46, 2014

51- V. Tahouneh , **M. H. Yas**, “The influence of equivalent continuum model based on the Eshelby-Mori-Tanaka scheme on the vibrational response of elastically supported thick continuously graded carbon nanotube-reinforced annular plates” Polymer composites, 35(8), 2014

52- S.Kamarian, M.Sadighi, M.Shakeri, **M.H.Yas**, “Free vibration response of sandwich cylindrical shells with functionally graded material face sheets resting on Pasternak foundation” J. Of Sandwich structures and Materials, 16, 511-531, 2014

53 ايلدا عبداللهی و **محمد حسين ياس** "تحليل ارتعاشات آزاد تیر تیموشنکو تقویت شده با نانو لوله های نیتريد بور بر روی بستر ارتجاعی " فصل نامه علمی پژوهشی مهندسی مکانیک جامدات شماره سوم زمستان 1393

54- S.Kamarian, **M.H.Yas**, A.Pourasghar, ‘Application of firefly algorithm and ANFIS for optimisation of functionally graded beams’, J. Of Experimental and theoretical , 26(2), 197-209, 2014

55- S.Kamarian, M.Shakeri, **M.H.Yas**, A.Pourasghar ‘Free vibration analysis of functionally graded nanocomposite sandwich beams resting on Pasternak foundation by considering the agglomeration effect of CNTs’ J. Of Sandwich structures and Materials,, 17(6), 632-664

56- M.Heshmati, **M.H.Yas**, F.Daneshmand, ‘A comprehensive study on the vibrational behavior of CNT-reinforced composite beams’ Composite Structures, 125, 434-448, 2015

57- **M.H.Yas**, N.Moloudi, ‘Three-dimensional free vibration analysis of multi-directional functionally graded piezoelectric annular plates on elastic foundations via state space based differential quadrature method’, Applied mathematics and mechanics, 36(4), 439-464, 2015

58- **M.H.Yas** , S.Mohammadi, ‘A comprehensive study on the thermo-mechanical properties of multi-walled carbon nanotube/epoxy nanocomposites’, Composite Materials, 50(15), 2025-2034, 2016

59- **M.H.Yas** , S.Mohammadi,Modelling of elastic behavior of carbon nanotube –reinforced polymers by accounting the interfacial debonding” Journal of reinforced plastics & composites, vol 35(20), 1477-1489. 2016

60- **M.H.Yas**, M.Nejati, A. Arsanjani, ‘ Free Vibration Analysis of Continuously Graded Fiber Reinforced Truncated Conical Shell Via Third-Order Shear Deformation Theory’ J of solid mechanics, 8(1), 212-231, 2016

61- **M.H.Yas**, H.Khoshnodi, A.Samadinejad ‘Dynamic Analysis of Multi-Directional Functionally Graded Panels and Comparative Modeling by ANN’, 8(3), 482-494, 2016

62- S.Kamarian, **M.H.Yas**, **M.Shakeri**, “Natural frequency analysis and optimal design of CNT/fiber/polymer hybrid composites plates using mori-tanaka approach, GDQ technique, and firefly algorithm” DOI: 10.1002/pc.24083 Accepted for publication in polymer composites

64- یاس ، نجاتی ، جعفری " ارتعاش ازاد ورق دایره ای هدفمند تابعی با ضخامت متغییر تقویت شده با نانوتیوب های کربنی " مجله استقلال روشهای عددی در مهندسی سال 35 شماره 2 زمستان 1395

63- A.pourasghar, **M.H.Yas**, A. Ghorbanpour, S.Kamarian, "Three-Dimensional Analysis of Carbon Nanotube-Reinforced Cylindrical Shells With Temperature-Dependent Properties Under Thermal Environmen" Accepted for publication in polymer composites

64- **M.H.Yas**, M.Karmi koramabadi, "Preparation with modeling and thoretical predictions of mechanical properties of functionally graded polyethylene /clay nanocomposites" Accepted for publication in Journal of theoretical and applied mechanics

65-M. Nejati, **M. H. Yas**, A. H. Eslampanah & M. Bagheriasl "Extended three-dimensional generalized differential quadrature method: The basic equations and thermal vibration analysis of functionally graded fiber orientation rectangular plates" Accepted for publication in Mechanics of advanced materials and structures

66- S.Kamarian, M.Shakeri, **M.H.Yas** Thermal buckling optimization of composites plates using firefly algorithm Accepted for publication in Journal of experimental & theoretical artificial intelgence DOI: 10.1080/0952813X.2016.1259267

## **CONFERENCE PRESENTATIONS:**

1- یاس ، شاکری ، اسلامی " تحلیل دینامیکی پوسته های کروی چند لایه اورتوتروپیک " پنجمین کنفرانس انجمن مهندسان مکانیک ایران دانشگاه تبریز اردیبهشت 1376

2- M.Shakeri, **M.H.Yas** "Three-Dimensional Vibration of Anisotropic Laminated Cylindrical Shells 7<sup>Th</sup>. Int. Conference on Computing in Civil and Building Eng Seoul-Korea 18-21 Aug. 1997

3- **M.H.Yas** "Elasticity Solution for Laminated Orthotropic Cylindrical Shell under Dynamic Local Patch load " 7<sup>Th</sup>. Int. Conference on Computing in Civil and Building Eng Seoul-Korea 18-21 Aug. 1997

4- M.Shakeri, **M.H.Yas** "Design of Laminated Orthotropic Hemispherical Shells under Blast Loads" 3<sup>Th</sup>. World Conference on Integrated Design & Process Technology Berlin-Germany 1998

5- M.Shakeri, **M.H.Yas** , A.K.Beigloo "A Galerkin Finite Element Dynamic Analysis of Multilayer Composite Cylindrical Shells" IASS-IACM 2000 Computational Methods for Shells and Spatial Structures Greece 2000

6- شاکری ، یاس "ارتعاشات پوسته های استوانه ای تقویت شده" چهارمین کنفرانس انجمن هوا و فضای ایران دانشگاه صنعتی امیرکبیر 5- 7 بهمن 1381

7- M.Shakeri, **M.H.Yas** , A. Ghsemi-Gol "Optimal Stacking Sequence of Laminated Cylindrical Shells using Genetic Algorithm" 9<sup>Th</sup>. East Asia-Pasific Conference on Structural Engineering and Construction Bali-Indonesia 2003 Dec.

8- شاکری ، یاس ، قاسمی گل " بهینه سازی ارتعاشات یک پوسته استوانه ای مرکب چند لایه به کمک الگوریتم ژنتیک " پنجمین

کنفرانس سراسری و دومین کنفرانس بین المللی انجمن هوا و فضای ایران 27-29 بهمن 1382

**9- M.H.Yas** "Exact Solution for Vibration of Cylindrical Shell With Intermediate Ring Supports"  
هشتمین کنفرانس بین المللی مکانیک ایران دانشگاه تربیت مدرس ایران اردیبهشت 1383

**10- M.Shakeri, M.H.Yas, M.R.Saviz** "Elasticity Solution for Laminated Cylindrical Shells with Piezoelectric Layer" ICRAM 2004 Recent Advances in Composite Materials Varanassi- India 17-19Dec, 2004

**11- شاکری ، یاس ، ساويز** "تحليل الاستيسيته سه بعدی پوسته استوانه ای ضخيم با لایه پیزو الکتریک" سیزدهمین کنفرانس بین المللی مکانیک ایران دانشگاه صنعتی اصفهان اردیبهشت 1384

**12- M.H.Yas, M.Shakeri, Daneshmehr** "Dynamic Elastic Solution of Cross-ply Laminated Finite Panel under the Effect of Piezoelectric Acuator Layer" The 8Th. SSTA Conference Shell Structures: Theory and Application Jurata-Poland 12-14 Oct. 2005

**13- M.H.Yas, M.Shakeri , A. Ghsemi-Gol** "Two-objective stacking sequence optimization of a cylindrical shell using genetic algorithm" چهاردهمین کنفرانس بین المللی مکانیک دانشگاه صنعتی اصفهان ایران اردیبهشت 1385

**14- یاس ، شاکری ، خاکسار** "بهینه سازی چیدمان لایه ها در پوسته استوانه ای مرکب بر مبنای ارتعاشات ازاد توسط روش ترکیبی Nelder Mead, Tabu search " چهاردهمین کنفرانس بین المللی مکانیک ایران دانشگاه صنعتی اصفهان اردیبهشت 1385

**15- شاکری ، یاس ، زرگرباشی** "بهینه سازی یک پوسته استوانه ای کامپوزیتی به منظور ماکزیم کردن مقاومت" ان چهاردهمین کنفرانس بین المللی مکانیک ایران دانشگاه صنعتی اصفهان اردیبهشت 1385

**16 – شاکری ، یاس ، غریب** "بهینه سازی جیدمان لایه ها در یک پوسته استوانه ای چند لایه با استفاده از شبکه عصبی و الگوریتم ژنتیک" چهاردهمین کنفرانس بین المللی مکانیک ایران دانشگاه صنعتی اصفهان اردیبهشت 1385

**17-M.Shakeri, M.H.Yas, M.R.Saviz** "Elasticity solution of laminated cylindrical shell with piezoelectric actuator and sensor layers" CST2006- The Eighth International Conference on Computational Structures Technology Spain 13-15 Sept. 2006

**18- M.H.Yas, M.Shakeri, M.R.Saviz** "Elasticity solution of laminated cylindrical shell with piezoelectric layer under local ring load" ACCM-5 The fifth Asian Australian Conference on Composite Materials Hong Kong 27-30 No. 2006-10-18

**19-M.H.Yas, M.Shakeri, R.Nabavi** " Natural frequency optimization of a laminated cylindrical shell with failure criteria constraint using penalty method" ACCM-5 The fifth Asian Australian Conference on Composite Materials Hong Kong 27-30 No. 2006-10-18

**20-M.Shakeri, M.R.Saviz, M.H.Yas** "Analysis of Laminated Cylindrical Shells with Piezoelectric Layers using the Layerwise Finite Element Method" Proc. of The 11Int. Conference on civil, structural and Environmental Engineering Computing, Malta, 2007

**21- M.H.Yas, M.Shakeri, R.Khaksar** "Stacking Sequence Optimization of a Laminated Cylindrical Shell Using Simplex Algorithm" Proc. of The 1 Int. Conference on Modern Design , Construction and Maintenance of Structures, Hanoi, Vietnam, 2007

**22-** M.Shakeri, M.R.Saviz, **M.H.Yas** " Finite Element Analysis of Laminated Cylindrical Shell with Piezoelectric Sensor and Actuator" Proc. of The 1 Int. Conference on Modern Design , Construction and Maintenance of Structures, Hanoi, Vietnam, 2007

**23-** یاس ، شاکری ، غریب ، گرمسیری، " بهینه سازی جیدمان لایه ها در پوسته های استوانه ای شش لایه بر مبنای ارتعاشات آزاد و کمانش به کمک الگوریتم ژنتیک و شبکه عصبی " شانزدهمین کنفرانس بین المللی مکانیک ایران دانشگاه شهید باهنر کرمان اردیبهشت 1387

**24-** **M.H.Yas**, M.Shakeri, M.Khanjani, R.Najmee "Dynamic Analysis of Functionally Graded Cylindrical Shell Using the Layer wise Finite Element Method" Proc. of The 4<sup>th</sup>. Int. Conference on Advances in STRUCTURAL ENGINEERING AND MECHANICS (ASEM'08), 26-28 May 2008, Jeju, Korea

**25-** M.Shakeri, **M.H.Yas**, M.Khanjani "Asymmetric Actuation of Functionally Graded Cylindrical Thick Shell with Piezoelectric Ring" Proc. of The 4<sup>th</sup>. Int. Conference on Advances in STRUCTURAL ENGINEERING AND MECHANICS (ASEM'08), 26-28 May 2008, Jeju, Korea

**26 - یاس ، قماش، طیبی، مرادی "** خودکار سازی جعبه دنده دستی بر روی خودرو پژو 206 " دومین کنفرانس بین المللی سالیانه صنعت الکترونیک خودرو دانشگاه تهران بهمن 1387

**27 - یاس ، گرمسیری "** کاربرد شبکه های عصبی مصنوعی در بهینه سازی چند منظوره پوسته های استوانه ای مرکب بر مبنای ارتعاشات آزاد و استحکام " هفدهمین کنفرانس بین المللی مکانیک ایران دانشگاه تهران اردیبهشت 1388

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## **BOOK**

**1- یاس " سیستم انتقال قدرت خودرو 1 "** انتشارات دانشگاه رازی 1388

## **INDUSTRIAL PROJECTS**

- 1- "Development of automated manual gearbox (AMT) on 206" Funded and ordered by Autoplan Dept. in industrial ministry & NMI Company , 1389
- 2-" Design of anisotropic cylindrical shells based on stacking sequence optimization" Funded by planning and management organization , In cooperation with Amir-Kabir University 1385
- 3- " Application of composite materials in engine" Funded by Razi university, 1384