


Curriculum Vitae

Nouby Mahdy Ghazaly, Ph.D.

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Nationality: Egyptian Date of Birth: Nov. 22, 1975	Marital Status: Married	

EDUCATION & QUALIFICATIONS:

08/2007 – 07/2011	Ph.D. – Noise and Vibrations - “Study on Automotive Disc Brake Squeal Using Finite Element Analysis and Design of Experiments” <i>AU-FRG Institute for CAD/CAM</i>, Faculty of Mechanical engineering, Anna University-Chennai-600025, <u>India</u>.
10/2000 - 7/2003	Master of Science (MSc) in Mechanical Engineering “The Effect of Wheel Lugs of Off-Road Vehicle on the Forces between the Wheel and Soil” Automotive and Tractor Engineering Department, El-Minia University, Egypt.
9/1994 - 7/1999	Bachelor of Science in Mechanical Engineering, 1st class, senior position Automotive and Tractor Engineering Department, El-Minia University, Egypt.

AREAS OF SPECIALTY:

Noise and Vibration, Experimental Vibration measurements, Modelling & simulation, Design of Experiments, Numerical Analysis, Finite Element Analysis (FEA), Solid Mechanics. Dynamical & Control Systems, Vehicle Dynamics.

MEMBER OF EDITORIAL BOARD:

1. International Journal of Engineering, Science and Technology (IJEST), 2010.
2. International Journal of Modern Engineering and Research (IJMER), 2011.
3. International Journal of Advances in Engineering & Technology (IJAET), 2011.
4. International Journal of Mechanical Engineering (IJME), 2011.
5. Journal of Current Engineering Research (JCER), 2011.
6. International Journal of Emerging Technology and Advanced Engineering (IJETA), 2012.
7. The International Journal of Engineering & Science (THE IJES), 2012.
8. International Journal of Mechanica Confab, 2013.
9. Global Journal of Engineering, Design & Technology (GJEDT), 2013.
10. International Journal of Recent Development in Engineering and Technology (IJRDET), 2013.
11. International Journal of Engineering Research (IJOER), 2014.
12. Journal of Engineering and Technology, 2014.
13. American Journal of Mechanical Engineering (AJME), 2014.

REVIEWER:

1. International Journal of Acoustics and Vibration, 2010.
2. International Journal of Engineering, Science and Technology (IJEST), 2010.
3. International Journal of Engineering Research and Applications (IJERA), 2011.
4. Journal of Engineering Science and Technology (JESTEC), 2011.
5. Journal of Mechanical Engineering and Automation (JMEA), 2012.
6. Journal of Science and Engineering of Composite Materials (SECM), 2013.
7. International Journal of Vehicle Noise and Vibration (IJVNV), 2013.
8. International Journal of Vehicle Design (IJVD), 2013.
9. Journal of Tribology Transactions, 2013.
10. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014.
11. Nonlinear Engineering – Modeling and Application (NLENG).2014.

ACADEMIC ACTIVITIES:

1. Member of Egyptian Engineers' Syndicate since 1999.
2. Member of the community affairs and environment development for Faculty for the academic years from November 2011 to November 2013 , Faculty of Engineering, Minia University, Egypt
3. Member SAE (Society American Engineering) since 2007.
4. Academic Advisory Board of the International conference on trends in Mechanical, Aeronautical, Computer, Civil, Electrical and Electronics Engineering (ICMACE'14)", Tamizhan College of Engineering and Technology, Tamilnadu, India 19th – 20th February 2014.
5. Member of judging committee for final Intel IMSEF-2014-Upper Egypt fair at Luxor, from Feb 18 to Feb 19, 2014.
6. Member of center of the Engineering works consultations at Automotive and Tractors department-faculty of engineering. Minia University, since 2011.
7. Member of the Automotive and Tractors department board, Faculty of Engineering, Minia University, Egypt , from 3/11/2011 to 6/3/2014.
8. Member of strategic plan team, Faculty of Engineering- Qena, South Valley University.
9. Member of the mechanical engineering department board, Faculty of Engineering, South Valley University since 6/3/ 2014.
10. Member of Quality Assurance Unit at Faculty of Engineering, Minia University, Egypt from 3/11/2011 to 5/3/2014.
11. Member of Quality Assurance Unit at Faculty of Engineering- Qena, South Valley University, Egypt since 6/3/2014.
12. Advisory Board of the Career Development Center (CDC), South Valley University since 2012.

AWARDS, PRIZES AND GRANTS

1. ICCR Fellowship Grant sponsored by the Government of India through Indo-Egyptian exchange program to study for Ph.D in Mechanical and Industrial Engineering Department, Anna University, Chennai-25, India., from August 2007 to July 2011.
2. Research Assistant, Fund Project IG/ENG/MEID/09/03, from 20th October to 25 November 2010- “The design and construction of a nano and micro scale pin-on-disc testing machine” funded by SQU.
3. South Valley University Award in Scientific Publication of the 2014.

THESES UNDER SUPERVISION:

1. Mostafa M. M. Makrahy "*Optimization and Experimental Investigation of a New Wedge Disc Brake*" *PhD. Thesis (completed) 2014.*
2. Ahmed Nabhan Mahmoud Elkholy "*Strength and Vibration Analysis and Anti-Friction Bearings Default*" *PhD. Thesis, (completed) (2015).*
3. Hamada Muhammed Abdel-Rahman "*Study of Automotive Wedge Disc Brake Using Different Control Systems*" *PhD. Thesis, on-going (2014).*
4. Mahmoud Mostfa Refai "*A Study on Drum Brake Noise and Vibration of Passenger Cars*" *PhD. Thesis, on-going (2014).*
5. Amr Muhammed Muhammed Rabia "*Modelling and Vibration Analysis of Disc Brake*" *"M.Sc. Thesis, (completed) 2013.*
6. Ameer Ali Kamel "*FEM - Modeling of Spur Gears-An Investigation into the Effect of The Working Conditions on The Generated Stresses*" *"M.Sc., (completed) (2015).*
7. El-Shema Hassan Kamel "*Study of the Anti-Lock Brake Systems for Passenger Cars*" *M.Sc., on-going (2012).*
8. Fatma salah kadry "*Study of Some Parameters Affecting Truck Ride Comfort*" *"M.Sc., on-going (2012).*
9. Mahmoud Hassan Abu-El-Maged "*Design and Optimization of Automotive Exhaust System*" *"M.Sc., on-going (2012).*
10. Mohamed Zakaria Mohamed "*Design and Simulation of Internal Combustion Engine Connecting Rod*" *"M.Sc., on-going (2013).*
11. Mohamed Gamal Foad "*Stress Analysis of Internal Combustion Engine Piston Using Finite Element Method*" *M.Sc., on-going (2013).*
12. Mohamed Kamber Moktar "*Stress and Damage Analysis of Bolted Composite Structure*" *M.Sc., on-going (2014).*
13. Abd El-Nasser Sharkawy Ahmed "*Intelligent Control of Active Suspension Systems*" *M.Sc., on-going (2014).*
14. Mahmoud Khaled Mahmoud "*Gearbox Fault Diagnosis Using Vibration Analysis*" *M.Sc., on-going (2015).*
15. Eman Mohamed Abdel Baset "*Bearing Fault Diagnosis Using Vibration Measurement*" *M.Sc., on-going (2015).*

Final Year Projects:

1. Design and simulation of small passenger car, 2012.
2. Experimental investigation of drum brake performance, 2013.
3. Working model of a camless engine, 2014.
4. Shock absorber with sensor, 2014.
5. Robotic parking system, 2014.
6. Design brake dynamometer for passenger car, 2015.
7. Fault diagnosis of internal combustion engine using vibrations analysis, on-going 2015.

TRAINING EXPERIENCE: (Selected)

- 1- **Instructor** for training courses in *The Effect of Oil on Maintenance*, 2011, 3-8 December, at Holding Company for Water and Waste Water, Cairo.
- 2- **Instructor** for training courses in *Operation and maintenance of Valves*, 2011, 18-22 December, at Holding Company for Water and Waste Water, Cairo.
- 3- **Instructor** for training courses in *Condition Monitoring of Rotating Machines*, 2013, 6-10 October, at Holding Company for Water and Waste Water, Cairo.
- 4- **Instructor** for training courses in *Machinery Faults Diagnosis & Vibration Analysis* 2014, 7-11 December, at Holding Company for Water and Waste Water, Cairo.
- 5- **Instructor** for training courses in *Engine Management*, 2013, Faculty of Engineering, Minia University.

TRAINING COURSES

- 1- Training Course on ‘*Quality standards in the teaching process*’ for the Egyptian Universities staff members 2011, July, El-Minia University, Egypt.
- 2- Training Course on ‘*Communication skills in different learning styles*’ for the Egyptian Universities staff members 2011, August, El-Minia University, Egypt.
- 3- Training Course on ‘*Credit Hours Educational System*’ for the Egyptian Universities staff members 2011, August, El-Minia University, Egypt.
- 4- Training Course on ‘*Effective Presentation Skills*’ for the Egyptian Universities staff members 2011, August, El-Minia University, Egypt.
- 5- Training Course on ‘*Research Team Management*’ for the Egyptian Universities staff members 2011, August, El-Minia University, Egypt.
- 6- Training Course on ‘*Conference Organization*’ for the Egyptian Universities staff members 2011, August, El-Minia University, Egypt.
- 7- Training Course on ‘*Time and Meeting Management Skills*’ for the Egyptian Universities staff members 2013, 23-24 December, El-Minia University, Egypt.
- 8- Training Course on ‘*Ethics Code of University*’ for the Egyptian Universities staff members 2015, 23-25 May, South Valley University, Egypt.
- 9- Training Course on ‘*Legal & Financial Aspects in University Environment*’ for the Egyptian Universities staff members 2015, 30 May- 1June, South Valley University, Egypt.
- 10- Training Course on ‘*International Publishing of Scientific Research*’ for the Egyptian Universities staff members 2015, 6-8 June, South Valley University, Egypt.
- 11- Training Course on ‘*Competitive Research Projects*’ for the Egyptian Universities staff members 2015, 6-8 December, South Valley University, Egypt.

DESIGN & DEVELOPMENT

1. Properties of Materials Lab
2. Material Science Lab
3. Design of Mechatronics Systems Lab
4. Vibrations and Noise Lab
5. Automotive Lab
6. Brake Noise Dynamometer
7. Gearbox Test Bench
8. Internal combustion engine Test Bench

PROFESSIONAL EXPERIENCE:

29/8/2015- present	Head of Mechanical Engineering Dept. , Faculty of Engineering- South Valley University, Qena, Egypt.
13/4/2014- 20/7/2014	Vice-Dean of Postgraduate Studies and Research , Faculty of Engineering- South Valley University, Qena, Egypt.
6/3/2014- present	Assistant Professor – Mechanical Engineering Dept., Faculty of Engineering- South Valley University, Qena, Egypt.
3/11/2011- 5/3/2014	Assistant Professor – Department of Automotive and Tractor Engineering, Faculty of Engineering, El-Minia University, Egypt.
03/2011- present	Consultant – ATALON for Testing and Consulting Engineers, Tamil nadu, India.
09/2013- present	Consulting and part-time in teaching at higher institute of Engineering and Technology, Luxor.
11/2011- 7/2013	Member of the community Service and environmental development affairs- Faculty of Engineering, El-Minia University, Egypt.
07/2011- present	Managing Director of Technocar Automotive Company for Trading & Training- Luxor, Egypt
07/2003- 07/2007	Lecturer – Department of Automotive and Tractor Engineering, Faculty of Engineering, El-Minia University, Egypt.
01/2007- 07/2007	Manager in Charge - Karnak Company for Car Trading, Dealer of (Nissan, Daewoo, Speranza, Daihatsu) in Luxor, Egypt.
05/2005- 11/2005	Maintenance Engineer/Supervisor (part time) - Karnak Company for Car Trading, Dealer of (Daewoo, Hyundai) in Luxor, Egypt.
29/11/1999- 07/2003	Assistant Lecturer - Department of Automotive and Tractor Engineering, Faculty of Engineering, El-Minia University, Egypt.
07/1999-11/1999	Automotive Maintenance Engineer - Karnak Company for Car Trading, Dealer of (TATA Motors, Hyundai) in Luxor, Egypt.
Taught Courses	Teaching and demonstrating the following modules for undergraduate (UG) and postgraduate (PG) students for more than 15 years: <ul style="list-style-type: none"> • Mechanical Vibrations • Theory of Machines • Engineering Drawing • Advanced Engineering Mathematics • Numerical Analysis • Statistics • Principles of Engineering Mechanics • Finite Element Analysis • Wear, Friction and Lubrication • Mechanical Design • Vehicle Dynamics • Internal Combustion Engines • Automatic Control • Automotive Electronics • Project Management • Maintenance Management • Marketing Management

PUBLICATIONS:

BOOKS:

1. **Nouby M. Ghazaly** “**Investigation of Automotive Brake Squeal**” Scientific & Academic Publishing, USA, ISBN: 978-0-9838996-3-1.
2. “**Automotive Electronics**” Faculty of Engineering, El-Minia University, Publisher office for undergraduate students, 2012.
3. “**Mechanical Vibrations**” Faculty of Engineering- South Valley University Publisher office for undergraduate students, 2013.
4. “**Mathematical & Numerical Analysis**” the higher institute of Engineering and Technology, Luxor Publisher office for undergraduate students, 2013.
5. “**Theory of Machines**” Faculty of Engineering- South Valley University Publisher office for undergraduate students, 2014.
6. “**Marketing & Management**” the higher institute of Engineering and Technology, Luxor Publisher office for undergraduate students, 2014.

JOURNAL ARTICLES:

1. **M. Nouby** and K. Srinivasan “**Simulation of Structural Modifications of a Disc Brake System to Reduce Brake Squeal**” Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011- Vol. 225, No. 5, pp. 653-672.
2. **M. Nouby**, C. Sujatha and K. Srinivasan “**Modelling of Automotive Disc Brake Squeal and Its Reduction Using Rotor Design Modifications**” International Journal of Vehicle Noise and Vibration, 2011 - Vol. 7, No. 2, pp. 129 - 148.
3. **M. Nouby**, J. Abdo, D. Mathivanan, K. Srinivasan “**Evaluation of Disc Brake Materials for Squeal Reduction**” Journal of Tribology Transactions, Volume 54, Issue 4, July 2011, pp. 644-656.
4. D. Mathivanan, **M. Nouby** and R. Vidhya “**Minimization of Sink Mark Defects in Injection Molding Process – Taguchi approach**” International Journal of Engineering, Science and Technology (IJEST), 2010-Vol. 2, No. 2, pp. 13-22.
5. J. Abdo, **M. Nouby**, D. Mathivanan, K. Srinivasan “**Reducing disc brake squeal through FEM Approach and Experimental Design Technique**” International Journal of Vehicle Noise and Vibration, 2010 - Vol. 6, No. 2/3/4 pp. 230 - 246.
6. **M. Nouby**, D. Mathivanan, and K. Srinivasan “**A Combined Approach of Complex Eigenvalue Analysis and Design of Experiments (DOE) to Study Disc Brake Squeal**” International Journal of Engineering, Science and Technology (IJEST), 2009, Vol. 1, No. 1, pp. 254-271.
7. **M. Nouby** and K. Srinivasan “**Parametric Studies of Disc Brake Squeal Using Finite Element Approach**” Jurnal Mekanikal, No 29, pp. 53-66, December 2009.
8. **M. Nouby**, Khalid Ali Abd El-Gawwad, A.T. Osman, Fawzy M. El-Sayed “**The Experimental and Theoretical Study of The Lug Dynamic Forces**” Bulletin of the Faculty of Engineering, Minia University, Minia, Egypt, Vol. 20 , No.2, pp.(93-105), 2002.

9. **M. Nouby** and Waleed F. Faris “**Optimal Design of a Brake Pad for Squeal Noise Reduction Using Response Surface Methodology**” International Journal of Vehicle Noise and Vibration, 2012 - Vol. 8, No. 2, pp. 125 – 135.
10. **M. Nouby** and J. Abdo “**A Study of the Influence of Brake Pad Topography on the Generation of Brake Noise and Vibration**” International Journal of Vehicle Noise and Vibration, 2012- Vol. 8, No. 1, (Special Issue).
11. **Nouby M. Ghazaly**, Sufean A. Mohmeed and Ali M. Abd-El-Tawwab” **Understanding Mode-Coupling Mechanism of Brake Squeal Using Finite Element Analysis**” International Journal of Engineering Research and Applications (IJERA), Vol. 2, Issue 1, pp.241-250, 2012.
12. Mohammed R., Sabry Allam, k. A. Abd El-Gwwad, Ali M. Abd-El-Tawwab and **Nouby M.**” **Modelling and Analysis of Single Expansion Chamber Using Response Surface Methodology**” International Journal of Engineering Research and Applications (IJERA), Vol. 2, Issue 1, pp. 651-658, 2012.
13. Sergey E. Galushin, Shazly A. Mohammed and **Nouby M. Ghazaly** “**Design a Realistic Performance of a Passenger Train**” International Journal of Engineering Research and Applications (IJERA), Vol. 2, Issue 1, pp. 1088-1098, 2012.
14. Amr M. M. Rabia, **Nouby M. Ghazaly**, M. M. M. Salem, Ali M. Abd-El-Tawwab “**An Experimental Study of Automotive Disc Brake Vibrations**” The International Journal of Engineering and Science (IJES), Vol. 2, Issue 1, pp. 194-200, 2013.
15. Amr M. M. Rabia, **Nouby M. Ghazaly**, M. M. M. Salem, Ali M. Abd-El-Tawwab “**Experimental Studies of Automotive Disc Brake Noise and Vibration: A Review**” International Journal of Modern Engineering Research (IJMER), Vol.3, Issue.1, pp-199-203, 2013.
16. Amr M. M. Rabia, **Nouby M. Ghazaly**, M. M. M. Salem, Ali M. Abd-El-Tawwab “**Finite Element Analysis of Disc Brake Vibration Considering Surface Roughness**” Minia Journal of Engineering and Technology, (MJET), Vol. 32, No 1, January 2013.
17. Mostafa M. Makrahy, **Nouby M. Ghazaly**, k. A. Abd El-Gwwad, K. R. Mahmoud and Ali M. Abd-El-Tawwab “**A Preliminary Experimental Investigation of a New Wedge Disc Brake**” International Journal of Engineering Research and Applications (IJERA), Vol. 3, Issue 6, Nov-Dec 2013, pp.735-744.
18. Mostafa M. Makrahy, **Nouby M. Ghazaly**, k. A. Abd El-Gwwad, K. R. Mahmoud and Ali M. Abd-El-Tawwab “**Optimization of a New Wedge Disc Brake Using Taguchi Approach**” International Journal of Modern Engineering Research (IJMER), Vol. 3, Issue. 6, Nov - Dec. 2013 pp-3461-3465.
19. Belhocine Ali and **Nouby M. Ghazaly** “**Thermal Modeling of Disc Brake Rotor in Frictional Contact**” Journal of Multiscale Modelling, 2013, Vol. 5, No. 3.
20. Mostafa M. Makrahy, **Nouby M. Ghazaly**, k. A. Abd El-Gwwad, K. R. Mahmoud and Ali M. Abd-El-Tawwab “**Optimization of Operation Parameters of New Wedge Disc Brake by Taguchi Method**” American Journal of Vehicle Design, 2013, Vol. 1, No. 2, 30-35.

21. **Nouby M. Ghazaly**, Mohamed El-Sharkawy and Ibrahim Ahmed “**A Review of Automotive Brake Squeal Mechanisms**” Journal of Mechanical Design and Vibration, 2014, Vol. 1, No. 1. PP. 5-9.
22. **Nouby M. Ghazaly**, Mostafa M. Makrahy, K. R. Mahmoud k. A. Abd El-Gwwad and Ali M. Abd-El-Tawwab “**Optimization of Geometric Parameters of a New Wedge Brake Using Taguchi Approach**” International Journal of Mechanical Engineering, Volume 3 Issue 11 (November 2013).
23. Mostafa M. Makrahy, Ali M. Abd-El-Tawwab, k. A. Abd El-Gwwad and **Nouby M. Ghazaly** “**Determination of Significant Geometric Parameters Based on Taguchi Method for Improving Wedge Disc Brake**” Transaction on Control and Mechanical Systems, Vol. 3(13), PP. 109-113, AUG., 2014.
24. Mohamed El-Sharkawy and **Nouby M. Ghazaly** “**Power Management Strategies for Hybrid Electric Vehicles**” European Journal of Academic Essays, 2014, Vol. 1, No. 5. PP. 63-97.
25. A. Belhocine, C.-D. Cho, **Nouby M. Ghazaly**, Y. B.Yi, A. R. Abu Bakar “**Thermal Analysis of Both Ventilated and Full Disc Brake Rotors With Frictional Heat Generation**” Journal Applied and Computational Mechanics, 2014, Vol. 8, PP. 5-24.
26. A. Belhocine, M. Bouchetara, Ar. Abu Bakar, **M. Nouby** “**Modeling of Thermal Contact Problem of Disc Brake System With Frictional Heat Generation**” World Journal of Engineering, Volume 11, Number 4 / August 2014. DOI: 10.1260/1708-5284.11.4.373.
27. **Nouby M. Ghazaly** “**Applications of Finite Element Stress Analysis of Heavy Truck Chassis: Survey and Recent Development**” Journal of Mechanical Design and Vibration. 2014, 2(3), 69-73. DOI: 10.12691/jmdv-2-3-3.
28. Aref M. A. Soliman, **Nouby M. Ghazaly**, Fatma S. Kadry “**Parameters Affecting Truck Ride Comfort**” SAE Technical Paper 2014-01-0147, 2014, DOI:10.4271/2014-01-0147.
29. Mahmud M. Abu zeid, M. A. Attia, **Nouby M. Ghazaly** “**Use of Fiber Glass (FG) in concrete mix to resist fires in installations**” European Journal of Academic Essays 1(7): 51-55, 2014.
30. Ahmad O. Moaaz, **Nouby M. Ghazaly** “**A Review of the Fatigue Analysis of Heavy Duty Truck Frames**” American Journal of Engineering Research (AJER), 2014, Vol. 3, Issue-10, pp-1-6.
31. **Nouby M. Ghazaly** Ahmad O. Moaaz “**The Future Development and Analysis of Vehicle Active Suspension System**” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2014, Volume 11, Issue 5 Ver. I, PP 19-25.
32. Ahmad O. Moaaz and **Nouby M. Ghazaly** “**Finite Element Stress Analysis of Truck Chassis Using ANSYS: Review**” International Journal of Advances in Engineering and Technology, 2014, Volume 7 (5), PP 1386-1391.

33. **Nouby M. Ghazaly** and Ahmad O. Moaaz “**Current Research Trends in Sound Transmission Loss of Silencers**” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2014, Volume 11, Issue 6 Ver. I, PP 22-26.
34. **Nouby M. Ghazaly**, Ali A. Kamel, and M. O. Mousa “**Influence of Misalignment and Backlash on Spur Gear Using FEM**” International Journal of Mechanical and Production Engineering, Volume- 2, Issue-12, Dec.-2014, PP 66-69.
35. **Nouby M. Ghazaly** and Mostafa M. Makrahy “**Experimental Investigation of Drum Brake Performance for Passenger Car**” International Journal of Mechanical and Production Engineering, Volume- 2, Issue-12, Dec.-2014, PP 70-73.
36. Belhocine Ali, **Nouby M. Ghazaly**, Oday Ibraheem Abdullah “**Structural and Contact Analysis of A 3-Dimensional Disc-Pad Model with and Without Thermal Effects**” Tribology in Industry, 2014, Volume 36, Issue 4. PP 406-418.
37. **Nouby M. Ghazaly**, Mostafa M. Makrahy, K. R. Mahmoud, k. A. Abd El-Gwwad and Ali M. Abd-El-Tawwab “**Experimental Evaluation of an Empirical Model for Wedge Disc Brake Using Box–Behnken Design**” International Journal of Vehicle Structures and Systems, 2014, Vol. 6, No 3.
38. Ali Belhocine, **Nouby M. Ghazali**, Oday I. Abdullah “**Dry Contact and Coupled Thermomechanical Analyses of Brake Disc-Pad using Finite Element Simulation** ” International Journal of Vehicle Structures and Systems, 2014, Vol. 6, No 3.
39. **Nouby M. Ghazaly**, Mostafa M. Makrahy, k. A. Abd El-Gwwad, K. R. Mahmoud and Ali M. Abd-El-Tawwab “**Optimization of Geometric Parameters for Wedge Brake Performance Using Central Composite Design**” International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS, 2014, Vol:14 No:06.
40. Belhocine Ali and **Nouby M. Ghazaly** “**Effects of Material Properties on Generation of Brake Squeal Noise Using Finite Element Method**” Latin American Journal of Solids and Structures, 2015, Vol. 12, No 02.
41. Nabhan, A., **Nouby, M.**, Sami, A.M., Mousa, M.O. “**Contact Stress Distribution of Deep Groove Ball Bearing Using ABAQUS**” Journal of The Egyptian Society of Tribology, Volume 12, No. 1, January 2015, pp. 49 – 61.
42. Mostafa M. Makrahy, Mahmoud, K. R. M., **Nouby M. Ghazaly**, k. A. Abd El-Gwwad and Ali M. Abd-El-Tawwab “**Experimental Investigation of Water Spray and Inclination Angle Influence on Wedge Disc Braking Force**” International Journal of Vehicle Structures and Systems, 2015, Vol. 7, No 2.
43. Nabhan, A., **Nouby, M.**, Sami, A.M., Mousa, M.O. “**A Novel Approach For The Effect of The Housing Height of Anti-Friction Bearings on The Generated Vibration Using Dynamic Model**” Journal of The Egyptian Society of Tribology, Volume 12, No. 2, April 2015, pp. 15 – 29.

44. Abd El-Nasser S. Ahmed, Ahmed S. Ali, **Nouby M. Ghazaly** and G.T.Abdel-Jaber “**PID Controller of Active Suspension System for a Quarter Car Model**” International Journal of Advances in Engineering & Technology, Dec., 2015.
45. Nabhan, A., **Nouby, M.**, Sami, A.M., Mousa, M.O. “**Bearing Fault Detection Techniques - A Review**” Submitted to Transaction on Control and Mechanical Systems.
46. Nabhan, A., **Nouby, M.**, Sami, A.M., Mousa, M.O. “**Vibration Analysis of Deep Groove Ball Bearing With Outer Race Defect Using Abaqus**” Journal of Low Frequency Noise, Vibration and Active Control. (*Accepted*).
47. Abd El-Nasser S. Ahmed, Ahmed S. Ali, **Nouby M. Ghazaly** and G.T.Abdel-Jaber “**Intelligent Fuzzy Logical Controller on Active Suspension System**” Submitted to Journal of Low Frequency Noise, Vibration and Active Control.

CONFERENCE PRESENTATIONS:

1. **M. Nouby**, Khalid Ali Abd El-Gawwad, A.T. Osman, Fawzy M. El-Sayed “**A Theoretical Study For Predicting The Lug Dynamic Forces**” proceedings of Al-Azhar engineering 7th International conference, Cairo, 7-10 April 2003.
2. **M. Nouby** and K. Srinivasan “**Disc Brake Squeal Reduction through Pad Structural Modifications**” Proceedings of International Conference on Recent and Emerging Advanced Technologies in Engineering (ICREATE 2009), Kuala Lumpur, Malaysia, November 23-24, 2009.
3. **M. Nouby**, D. Mathivanan, and K. Srinivasan “**A Study on Disc Brake Squeal Using Design of Experiments**” Proceedings of International Conference on Advances in Industrial Engineering Applications (ICAIEA-2010) Chennai, India. January 6-8, 2010.
4. **M. Nouby**, K. Srinivasan and Ali M. Abd-El-Tawwab “**Prediction of Commercial Disc Brake Squeal Using Finite Element Methods**” Proceedings of International Conference on challenges and applications of mathematics in science and technology (CAMIST-2010) Rourkela, Orissa, India. January 11-13, 2010.
5. **M. Nouby**, J. Abdo and K. Srinivasan ”**Simulation of Rotor Design Modifications of a Ventilated Disc Brake to Reduce Squeal Noise**” Proceedings of International Conference on Applied Mechanics, Materials, and Manufacturing (ICAMMM 2010) Sultan Qaboos University, Oman. December 13-15, 2010.
6. C. Sujatha, **M. Nouby** and K. Srinivasan “**Reduction of Automotive Brake Squeal through Pad Geometrical Modifications: A Numerical Study**” Proceedings of IEEE International Conference on Frontiers in Automobile and Mechanical Engineering (FAME–2010) Chennai, India. 25th-27th November 2010.
7. **M. Nouby**, J. Abdo and K. Srinivasan ” **Significance of Surface Topography in Noise and Vibration Generation of Automotive Disc Brake System**” Proceedings of International Conference on Applied Mechanics, Materials, and Manufacturing (ICAMMM 2010) Sultan Qaboos University, Oman. December 13-15, 2010.

8. **M. Nouby** and K. Srinivasan “**Numerical Simulation to Predict Disc Brake Squeal Propensity**” Proceedings of National Conference on Advances in Mechanical Engineering (AIM 2009), Manipal, Karantaka, India, December 4-5, 2009.
9. **M. Nouby** and K. Srinivasan “**Friction-Induced Noise and Vibration in Automotive Brake System: Experimental Study**” Proceedings of International Conference on Recent Advances in Mechanical Engineering (INCRAME 2011), Chennai, India. April 21-22, 2011.
10. **Nouby M. Ghazaly**, Ali A. Kamel, and M. O. Mousa “**Influence of Misalignment and Backlash on Spur Gear Using FEM**” Proceedings of International Conference on Mechanical, Aerospace and Production Engineering (ICMAPE-2014), Kuala Lumpur, Malaysia, 18th October, 2014.
11. **Nouby M. Ghazaly** and Mostafa M. Makrahy “**Experimental Investigation of Drum Brake Performance for Passenger Car**” Proceedings of International Conference on Mechanical, Aerospace and Production Engineering (ICMAPE-2014), Kuala Lumpur, Malaysia, 18th October, 2014.
12. Nabhan, A., **Nouby M.**, Sami, A.M., Mousa, M.O. “**Mathematical and Numerical Model of Ball Bearing Contact Stresses**” Proceedings of International Conference on Mathematics & Information Science (ICMIS-2015), Cairo –Egypt, 5-7 February, 2015.

SEMINARS/WORKSHOP

1. National Seminar on “Creativity & Innovation in New Product Development” Anna University, India, 24th- 25th April 2009.
2. National Workshop on Advances in Metrology & Measurements (METROMENT 2010), Anna University, India, 22nd- 23rd November 2010.

COMPUTING SKILLS

- **CAD Software**
- **CAE Software**
- **Mathematical Software**
- AutoCAD, Pro/Engineer
- ABAQUS, ANSYS.
- MATLAB

REFERENCES

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