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Present Position

Assistant Professor (SI Gr), Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai from June-2017.

Previous Positions

- Assistant Professor, Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai during January-2008 and June-2012.

Previous Additional Responsibility

- Deputy Director, Centre for Academic Courses, Anna University, Chennai during July-2014 and November-2018.
- Student Counsellor, Department of Mechanical Engineering, Anna University, Chennai during July-2010 and July-2011.

Other Employment

- Asst. Professor, Amrita Vishwa Vidyapeetham (Deemed University) for 01/07/2007 to 31/12/2007.
- Senior Lecturer, Amrita Vishwa Vidyapeetham (Deemed University) for 01/02/2005 to 31/06/2007.
- Lecturer, Amrita Vishwa Vidyapeetham (Deemed University) for 11/07/2003 to 31/01/2005.
- Lecturer, Sethu Institute of Technology for 24/08/1998 to 13/07/2000.

Degree

- ❖ M.Tech. in Engineering Mechanics (Applied Mechanics Department), IIT, Madras, IIT, Madras (2000 - 2001).
- ❖ B.E. in MECHANICAL ENGINEERING , RVS College of Engineering, Madurai Kamaraj University (1994 - 1998).

Research Degree

- ❖ Ph.D. in Mechanical Vibrations & Finite Element Analysis from Faculty of Mechanical Engineering, College of Engineering Guindy, Anna University (2008 - 2012).
Title: DYNAMIC ANALYSIS OF FABRICATED DRIVE HOUSINGS IN PROCESS PLANTS.

Area of Specialisation

- Mechanical Vibrations, FEA, Machine Design

Membership in Professional Organization

- The Institution of Engineers (India) - Associate Member
- ISTE - The Indian Society for Technical Education (Life Member)
- ISAMPE - Indian Society Advancement of Materials and Process Engineering (Life Member)

Research Guidance

Number of Ph.D Scholars Guided	: 3
Number of Ph.D Scholars Guiding	: 3
Number of M.S (By Research) Students Guided	: 1
Number of M.E./ M.Tech. Projects Guided	: 20
Number of M.E./ M.Tech. Projects Guiding	: 5

Papers Published in Journals

Research Papers Published in International Journals	: 19
Research Papers Published in National Journals	: 7

1. V.Ramamurti, K.Malar Mohan, Jayadurga ganapathy, "Design guidance for cordon shaft of twin drives in cement mills", ZKG International, Vol. 60, Issue 2, pp. 37 to 47 (2007).
2. N Prabhakar, P Chellapandi, C Jebaraj, KM Mohan, " Elastic Plastic Buckling Analysis of Tori-Spherical Heads", ICAMB 2009483, pp. 483-488 (2009).
3. KM Mohan, K Srinivasan, V Ramamurti, " Dynamics of machine tool drive housings", Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, published by Sage Publications. Vol. 224, Issue 11, pp. 1619-1630 (2010).
4. Ramamurti, V,Malar Mohan, K. and Srinivasan, K, "Dynamic Analysis of Fabricated Housings in Process Plants", Proceedings of Indian national science academy, Vol. 76, Issue 4, pp. 171-188 (2011).
5. D Kannan, K.Malar Mohan, "Design and Development of work tool Attachment", IJERT, Vol. 1, Issue 1, pp. 198-200 (2013).

6. malar mohan M.Balaji, " Redesign the steering column assembly with crimping method", Journal of Mechanical and civil engineering , published by IOSR Journals. Vol. 11, Issue 2, pp. 84-89 (2013).
7. M.Balaji, K.Malar Mohan, " Redesign the steering column assembly with crimping method", IOSR , Vol. 11, Issue 2, pp. 84-89 (2014).
8. Pattabiraman, TR, Malarmohan, K & Srinivasan, K, "Assessment of Sideband Energy Ratio Technique in Detection of Wind Turbine Gear Defects", Case studies in Mechanical Systems and Signal Processing, Vol. 2, Issue 1, pp. 1 - 11 (2015).
9. T.R.Pattabiraman,K.Malar Mohan, "Significance of sideband energy ratio in gear defect monitoring of wind turbine gear box", International Journal of Applied Engineering Research, Vol. 10, Issue 4, pp. 3756-3761 (2015).
10. M. Meikandan, K. Malarmohan, " Fabrication of a Superhydrophobic Nanofibres by Electrospinning", Digest Journal of Nanomaterials and Biostructures, Vol. 12, Issue 1, pp. 11-17 (2016).
11. M. Meikandan, K. Malarmohan, R. Velraj, "DEVELOPMENT OF SUPERHYDROPHOBIC SURFACE THROUGH FACILE DIP COATING METHOD", Digest Journal of Nanomaterials and Biostructures, Vol. 11, Issue 3, pp. 945-951 (2016).
12. V. Venkatesan,K. Malar Mohan,V. Ramamurti, "Tube mill drive systems-a review", ZKG-International, (2016).
13. Jothi Sundaram,Balamurugan Varadarajan,Malarmohan Keppanan, "Dynamic behaviour of a trailing arm suspension unit of a tracked vehicle with flexible and rigid elements", International Journal of Heavy Vehicle Systems, (2016).
14. S. Jothia, V. Balamurugan,and K. Malar Mohan, "Influence of Flexible Bodies in Military Tracked Vehicle Dynamics", International Journal of Vehicle Structures & Systems, Vol. 8, Issue 2, pp. 91-97 (2016).
15. S. Jothi, V. Balamurugan, and K. Malar Mohan, "Ride Dynamics of a Tracked Vehicle with a Finite Element Vehicle Model", Defence Science Journal,, Vol. 66, Issue 1, pp. 19-25 (2016).
16. Kantha Shoba.M,Thirulogachandar.M,Malar Mohan.K, " Optimal Design of Parameters of Involute Spur Gear Using Finite Element Analysis", International Journal of Innovative Research in Technology, Science & Engineering (IJIRTSE), published by www.ioirp.com. Vol. 2, Issue 4, pp. 50-58 (2016).
17. M. Meikandan, K. Malarmohan, E.Hemachandran, "Experimental Investigation on Thermal Performance of Nano Coated Surfaces for Air-Conditioning Applications", Thermal science, (2017).
18. S Gokul Prasad, S Aakash, K Malar Mohan, " Simulation of a Control System for an Adaptive Suspension System for Passenger Vehicles", International Journal of Mechanical and Mechatronics Engineering , Vol. 11, Issue 3, pp. 641-646 (2017).

19. K. MALARMOHAN, M. MEIKANDAN, "FABRICATION OF A SUPERHYDROPHOBIC NANOFIBRES BY ELECTROSPINNING", Digest Journal of Nanomaterials and Biostructures, published by BoD–Books on Demand. Vol. 12, Issue 1, pp. 11-17 (2017).
20. P Murugan, P Ganesh Kumar, V Kumaresan, M Meikandan, K Malar Mohan, R Velraj, " Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting", PhaTr , Vol. 91, Issue 3, pp. 254-270 (2018).
21. M Meikandan, K Malarmohan, E Hemachandran, " Experimental investigation on thermal performance of nanocoated surfaces for air-conditioning applications", Thermal Science Part A , Vol. 23, Issue 2, pp. 457-463 (2019).
22. V Venkatesan, K Mohan, D Vinoth, " Radial run-out prediction of girth gears with dual-mesh pinions by means of finite element analysis", ZKG INTERNATIONAL , published by BAUVERLAG BV GMBH. Vol. 72, Issue 10, pp. 32-38 (2019).
23. GP Sreenivasan, MM Keppanan, " Analytical approach for the design of convoluted air suspension and experimental validation", Acta Mechanica Sinica , published by The Chinese Society of Theoretical and Applied Mechanics; Institute o. Vol. 35, Issue 5, pp. 1093-1103 (2019).
24. S Gokul Prasad and K.Malar Mohan, " A contemporary adaptive air suspension using LQR control for passenger vehicles", ISA Transactions, published by Elsevier. Vol. 93, pp. 244-254 (2019).
25. Venkatesan Venkataraman, Malar Mohan Keppanan, Vinoth Dhanasekaran, " Modal and Harmonic Analysis of Girth Gear With Dual Mesh Pinions by Using Finite Element Method", ASME International Mechanical Engineering Congress and Exposition, published by American Society of Mechanical Engineers. Vol. 59414, pp. V004T05A052 (2019).
26. M Meikandan, M Sundarraj, D Yogaraj, K Malarmohan, " Experimental and numerical investigation on bare tube cross flow heat exchanger-using COMSOL", International Journal of Ambient Energy , published by Taylor & Francis. Vol. 41, Issue 5, pp. 500-510 (2020).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 4
Research Papers Presented in National Programmes : 2

1. N.Prabhakar, P.Chellapandi, C.Jebaraj, K.Malar Mohan, "Elastic Plastic Buckling Analysis of Tori-Spherical Heads" presented in a International level conference on ICAMB 2009, organised by VIT University, India from 14-Dec-2009 to 16-Dec-2009.
2. Baranitharan P, Malar Mohan K, Murugan M, "Investigation of effect of air booster on air fuel mixture of a carburetor for two wheeler applications" presented in a National level conference on ETIA 2010, organised by VEC, India from 26-Mar-2010 to 27-Mar-2010.
3. Ravichandran G, Malar Mohan K, Chinnaraj K, "Parametric study Analysis and Design Modifications of Rear Axle Housing Assembly for heavy commercial Vehicles" presented in a National level conference on NCAAT 2010, organised by Rajalakshmi Engg College, India from 15-Jul-2010 to 16-Jul-2010.

4. P. Rajan, K. Malar Mohan, "Design and Fabrication of battery operated vehicle for differently abled persons" presented in a International level conference on ICEMAP 2013, organised by Tagore Engineering college, India from 23-May-2013 to 24-May-2013.
5. K. Malar Mohan, R. Palaninathan, R. Velmurugan, "Thermal Stress Analysis of Layered Cylindrical Shells" presented in a International level conference on IEEE-ICMAE-2016, organised by IEEE-ICMAE-2016, london,United Kingdom from 18-Jul-2016 to 22-Jul-2016.
6. "Modal and Harmonic Analysis of Girth Gear with Dual Mesh Pinions by Using Finite Element Method" presented in a International level conference on IMECE-2019, organised by ASME, United States of America from 11-Nov-2019 to 14-Nov-2019.

Sponsored Projects Completed

1. "Seismic Analysis of Reactor Assembly of Commercial Fast Breeder Reactor", funded by IGCAR (December-2013 - December-2014). Project Cost: 1000000.00.
2. "Seismic Analysis for control panels", funded by M/sSun Industrial Automation & Solutions (August-2015 - May-2016). Project Cost: 180000.00.
3. "Technical study on vibrations levels at chennai central railway station", funded by M/sArmour Display Systems Pvt.Ltd. (April-2016 - April-2016). Project Cost: 40000.00.
4. "Torsional Vibration Analysis of the 12 cylinder V Engine with the attached Pump", funded by Vibrotech Pvt Ltd (February-2018 - May-2018). Project Cost: 100000.00.
5. "Design vibration analysis and Experimental Testing of Antenna Fixture", funded by Sameer-Center for Electromagnetic (December-2018 - February-2019). Project Cost: 60000.00.
6. "Design of Lifter/Puller with rail for lifting with mast segments", funded by Siemens Gamesa Power Private Limited (August-2018 - May-2019). Project Cost: 412500.00.
7. "Design of a 130m tall metrological mast with guyed wires", funded by Siemens Gamesa Power Private Limited (February-2018 - May-2019). Project Cost: 300000.00.
8. "Finite Element Analysis of 30m, 4 section Wind mast", funded by Hydraulic Actuators Private Limited (August-2018 - March-2019). Project Cost: 950000.00.

Programme Chaired

1. Chairman, International level conference titled "Materials, Design and Manufacturing process (ICMDM 2016)" conducted by CEG, Anna University from 17-Feb-2016 to 19-Feb-2016.

Programme Organized

1. Work Shop Coordinator, National level workshop on "Engineering Mechanics" from 26-Nov-2013 to 06-Dec-2013.

2. Coordidator, National level Short Course on "Two days course on Mechanical Vibrations" from 21-Oct-2016 to 22-Oct-2016.

Programme Attended

1. Attended a National level Short Course on "Sustainable Development through Green Manufacturing" organized by Amrita Vishwa Vidyapeetham, India from 28-Mar-2004 to 10-Apr-2004.
2. Attended a National level Short Course on "Advances in Non Destructive Evaluation" organized by National Institute of Techonology, Tiruchirappalli, india from 29-Jul-2004 to 31-Jul-2004.
3. Attended a National level Short Course on "Cleaner Technologies for Sustainable Development" organized by Amrita Vishwa Vidyapeetham, India from 28-Mar-2005 to 08-Apr-2005.
4. Attended a International level Short Course on "Introduction to Industrial Vibration Problems and their solutions" organized by AUFRG, Anna University, India from 26-May-2005 to 28-May-2005.
5. Attended a International level Short Course on "Vehicle vibration problems and their solutions" organized by AUFRG, Anna University, India from 23-Feb-2006 to 25-Feb-2006.
6. Attended a National level Short Course on "Engineering Graphics" organized by CFD, Anna University, India from 11-Jun-2008 to 18-Jun-2008.
7. Attended a National level seminar on "Creativity and Innovation in New ProductDevelopment" organized by AUFRG,Anna University, India from 24-Apr-2009 to 25-Apr-2009.
8. Participated in a International level workshop on "Design of JIGS Fixtures and Press Tools" organized by AUFRG,Anna University, India from 15-Jun-2009 to 23-Jun-2009.
9. Attended a National level Short Course on "Robotics and Robot Applications" organized by IIT-Madras, India from 21-Jun-2010 to 26-Jun-2010.
10. Attended a National level Short Course on "Noise and Vibration Control Course" organized by University of Southampton, India from 24-Sep-2010 to 25-Sep-2010.
11. Attended a National level Short Course on "FEM with applications of heat transfer, fluid mechanics and solid mechanics" organized by SRM University, India from 22-Dec-2010 to 24-Dec-2010.
12. Participated in a National level workshop on "Recent Developments in large scale solar thermal systems for commercial applications and green buildings" organized by Anna University, India from 22-Jun-2011.
13. Participated in a National level workshop on "Coordinators workshop on engineering mechanics" organized by IIT Bombay, India from 16-Sep-2013 to 20-Sep-2013.
14. Attended a National level Short Course on "Efficient product design for manufacture and assembly" organized by AUFRG, Anna University, India from 17-Oct-2013.

15. Attended a National level Short Course on "Mechanics of Composite Materials and Structures" organized by SRM University, India from 21-Dec-2015 to 22-Dec-2015.

Experience Abroad

1. Visited IEEE, London, United Kingdom from 18-Jul-2016 to 20-Jul-2016. Purpose of visit :Attending and Presenting a paper in the Conference (IEEE-ICMAE_2016).
2. Visited ASME, United States of America from 11-Nov-2019 to 14-Nov-2019. Purpose of visit :Attending and Presenting a paper in the Conference (ASME-IMECE_2019).

Invited Lectures

1. Delivered a Lecture on "Screw and Clutch Friction" in Guest lecture organized by Velammal Engineering College, Chennai (05-Feb-2014).
2. Delivered a Lecture on "Recent Trends in CAD" in AICTE Sponsored organized by VELTECH HIGHTECH Dr RANGARAJAN Dr SAKUNTHALA Eng, Chennai (20-Apr-2014).
3. Delivered a Lecture on "Recent Trends in FEM" in Guest lecture organized by Sriram Engineering College, Chennai (01-Apr-2015).

Extension & Outreach Programme

1. Coordinator, XII UGC PLan, participated by ST,SC,OBC and funded by UGC at University Departments Nagerkovil & Thirunelveli during 07-Mar-2013 and 16-Mar-2013. No. of participants: 60.