



Name : **SATISH C. JAIN**

Designation : **Professor**

Educational Qualifications :

Degree	Year	University	Specialization
Ph.D.	1982-83	University of Roorkee	Mechanical Engineering
M.E.	1970-71	University of Roorkee	Machine Design
B.Sc. Engg.	1968-69	Aligarh Muslim University, Aligarh	Mechanical

Research Interests : Machine Design, Tribology, Computer Aided Design, Noise & Vibration

Recent Publications:

Journals

1. Satish C. Sharma, T. Nagaraju, S.C. Jain,
"Combined Influence of Journal Misalignment and Surface Roughness on the Performance of Orifice Compensated Non-Recessed Hybrid Journal Bearing",
STLE Tribology Transactions (U.S.A.), Vol. 45, No. 4, pp. 457-463, 2003.
2. T. Nagaraju, Satish C. Sharma and S.C. Jain,
"Performance of Externally Pressurized Non-Recessed Roughened Journal Bearing, System Operating with Non-Newtonian Lubricant",
STLE, Tribol. Trans. (U.S.A.), Vol. 46, No. 3, pp. 404-413, 2003.
3. Singh, P.K., Jain, S.C. and Jain, P.K.,
"Tolerance Analysis of Mechanical Assemblies Using Monte Carlo Simulation",
Int. J. Indl. Eng., 10(2): 188-196. 2003.

4. Singh, P.K., Jain, P.K. and Jain, S.C.,
"Simultaneous Optimal Selection of Design and Manufacturing Tolerances With Different Stack-up Conditions Using Genetic Algorithms",
Int. J. Prod. Res., 41(11): 2411-2429, 2003.
5. Singh, P.K., Jain, S.C. and Jain, P.K.,
"Tolerance Allocation with Alternative Manufacturing Processes – Suitability of Genetic Algorithms",
Int. J. Simul. Model., 2(1-2): 22-34, 2003.
6. Singh, P.K., Jain, S.C. and Jain, P.K.,
"Concurrent Tolerance Design with Alternative Manufacturing Processes",
Int. J. Simul. Model., 3(1): 5-16, 2004.
7. Singh, P.K., Jain, S.C. and Jain, P.K.,
"A GA Based Solution to Optimum Tolerance Synthesis of Mechanical Assemblies with Alternative Manufacturing Process – Benchmarking with the Exhaustive Search Method using the Lagrange's Multiplier",
Proc. Instn. Mech. Engrs. J. Engg. Manufact., 2004, (In Press).
8. Singh, P.K., Jain, P.K. and Jain, S.C.,
"GA Based Optimal Tolerance Synthesis with Alternative Manufacturing Processes (Machines) – Solution to Complex Tolerancing Problems",
Int. J. Prod. Res., 2004, Accepted.
9. Singh, P.K., Jain, S.C. and Jain, P.K.,
"Advanced Optimal tolerance Design of Mechanical Assemblies Considering Interrelated Dimension Chains and Process Precision Limits",
Computer in Industry, Communicated on 15th Jan – 03, Revised on 8th Jan. 04, 2003.
10. Vijay Kumar, Satish C. Sharma and S.C. Jain,
"On the Stability Margin of Hole Entry Hybrid Journal Bearing Considering Viscosity Temperature Variation",
STLE Trib. Trans. (USA), Vol. 46, No. 3, pp. 421-427, 2003.
11. Narendra Singh, Satish C. Sharma, S.C. Jain and S. Sanjeeva Reddy,
"Performance of Membrane Compensated Multirecess HydroStatic/Hybrid flexible Journal Bearing System Considering Various Recess Shapes",
Tribology International, (UK), Vol. 37, No. 1, 2004, pp. 11-24.
12. Satish C. Sharma, Vijay Kumar, S.C. Jain and t. Nagaraju,
"Study of Hole Entry Hybrid Journal Bearing System Considering Combined Influence of Thermal and Elastic Effects",
Tribology International (UK), vol. 36, No. 12, pp. 903, 2003.
13. Vijay Kumar, Satish C. Sharma and S.C. Jain,
"Stability Margin of Hybrid Journal Bearing: Influence of Thermal and Elastic Effects",
ASME Transaction, Journal of Tribology, Vol. 126, Oct. 2004.
14. T. Nagaraju, Satish C. Sharma and S.C. Jain,
"Study of Orifice Compensated Hole-Entry Hybrid Journal Bearing Considering Combined Influence of Surface Roughness and Flexibility Effects",
Tribology International (UK), Revised and Submitted.

Book Chapters

1. Singh, P.K. Jain, S.C. and Jain, P.K.,
"Integrated Optimal Tolerance Design in Mechanical Assemblies",
in DAAAM International Scientific Book 2003, b. Katalinic (Ed.), ISSN 1726-9687, ISBN 3-901509-30-5, Publisher DAAAM International Vienna, Vienna, pp. 555-568, 2003.

Conference

1. Rajeev Kumar, Ashish Srivastava, B.K. Mishra, S.C. Jain,
"Finite Element Formulation and Active Vibration Control using Real Code Genetic Algorithm",
Proc. Intern. Conf. on Mechanical Engineering 2003 (ICME 2003), 26-28 December 2003, Dhaka,
Bangladesh, Paper No. ICME2003-ACS-03/106.
2. Rajeev Kumar, B.K. Mishra, S.C. Jain,
"Smart Material and Structure Review",
Presented at XIII National Conference of ISME 2003, Dec. 30-31, 2003, Paper MD-067, pp. 47.
3. Ashish Srivastava, B.K. Mishra, S.C. Jain,
"Smart Material and Structure Review"
Presented at XIII National Conference of ISME 2003, Dec. 30-31, 2003, Paper MD-068, pp. 48.
4. Ganesh Kumar, M. Bhattacharya, S.C. Jain,
"Influence of Operating and Design Parameters on the Diesel Engine Noise and Emission",
Presented at XIII National Conference of ISME 2003, Dec. 30-31, 2003, Paper MD-052, pp. 52.
5. Girish Desale, B.K. Gandhi, S.C. Jain,
"Suspension of Sand Particles in a Cylindrical Water Pot Due to Rotation of a Propeller",
Proc. 30th National Conference on fluid Mechanics & Fluid Power, pp. 528-524, Dec. 11-13, 2003.
6. Singh P.K. Jain P.K. and Jain S.C.,
"Manufacturing Cost Models in Tolerance Design of Mechanical Assemblies",
Proc. Int. Conf. CAD, CAM, Robotics and Autonomous Factories (INCARF – 2003), IIT Delhi,
Aug. 13-18, 2003.
7. Singh P.K., Jain S.C., and Jain P.K.,
"Optimal Tolerance Allocation of Mechanical Assemblies with Alternative Manufacturing
Processes (Machines)",
Annals DAAAM and Proceedings of 14th International DAAAM Symposium, Vienna, Austria, pp.
419-420.
8. Singh P.K., Jain S.C., and Jain P.K.,
"Concurrent Optimal Design of Nominal Dimension and Tolerances Considering Alternative
Manufacturing Processes (Machines)",
CAD'04, Accepted, 2003.
9. Singh N., Sharma Satish C., and Jain S.C.,
"Performance of a Constant Flow Valve Compensated Multirecess Hydrostatic / Hybrid Journal
Bearing of Different Recess Geometries",
Proc. National Conference on Recent Development in Mechanical Engineering, TIET, Patiala,
Oct. 31 – Nov. 1, 2003 pp. 264-270.
10. Satish C. Sharma, T. Nagaraju and S.C. Jain,
"Performance of Orifice Compensated Hole Entry Journal Bearing System Considering Surface
Roughness and Thermal Effects",
Presented at Joint STLE/ASME Tribology Conference, Florida, Oct. 26-29, 2003.

Current Students:

Name	Degree	Title of thesis
Nagamalleswara Rao Thonta	M.Tech.	Design of an Enclosure for a Portable Generator.
Vinod Dnyaneshwar Patil	M.Tech.	Simulated Study of Sliding Wear.
Jitendra Singh Rathore	M.Tech.	Performance of Multirecess Hydrostatic/Hybrid Journal Bearing Considering Combined Influence of Recess Shape and Non-Newtonian Behaviour of Lubricant
Ganesh Kumar	M.Tech.	Effect of Injection System Parameters on the Noise and Emission of a small DI Diesel
Addanki Sreenivasulu	M.Tech.	
Rajeev Kumar	Ph.D.	Vibration and Shape Control of Smart Structure
Naveen Garg	Ph.D.	Noise Control of A D.I Diesel Engine
Rakesh Kumar Gautam	Ph.D.	Tribology
Ashish Srivastava	Ph.D.	Vibration Control of Inflated Torus Using Smart Materials
Mr.P.K.Singh	Ph.D.	Tolerance Design of Mechanical Assemblies
Mr.Girish R.Desale	Ph.D.	Study on Slurry Erosion Characteristics of Ductile Type Materials and Laser Cladded Surfaces.
Zaw Win	Ph.D.	Noise Study in a Small, high Speed, DI Diesel Engine by Modulation of Injection Rate

Abdul Haq Abdul Qader	Ph.D.	Aluminium Alloy Based In-Situ Composites- Synthesis, Mechanical and Tribological Properties
Rajeev Kumar Awasthi	Ph.D.	Fluid Film Lubrication
T. Nagaraju	Ph.D.	Performance of Non-Recessed Hybrid Journal Bearing with Surface Roughness
Narendra Singh (Part Time)	Ph.D.	Performance of Multirecess Compensated Flexible Journal Bearing with Various Recess Shapes

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