

Asif Mansoor

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About

Dr. Asif Mansoor is working as Associate Professor in the Pakistan Navy Engineering College. Dr. Asif Mansoor has a PhD in Computational Fluid Dynamics, Stochastics Modeling. Dr. Asif Mansoor has published 35 research articles & conference papers having a citation count of 173, carried out 0 projects and filed 0 intellectual property.

Qualifications

<b>PhD in Computational Fluid Dynamics, Stochastics Modeling</b> University of Karachi , Pakistan	2005 - 2010
<b>B.Ed in Applied Mathematics</b> Islamia University of Bahawalpur , Pakistan	1991 - 1992
<b>MSc in Applied Mathematics</b> BZU, Multan , Pakistan. (Duplicate)	1987 - 1989
<b>BSc in Math, Physics</b> Islamia University of Bahawalpur , Pakistan	1984 - 1986

Experience

<b>Associate Professor</b> Pakistan Navy Engineering College	2022- Present
<b>Assistant Professor</b> Pakistan Navy Engineering College	2017 - 2022
<b>Assistant Professor</b> Pakistan Navy Engineering College , Pakistan Navy Engineering College, Karachi	2009 - 2017
<b>Assistant Professor</b> University of Karachi , Department of Mathematics, University of Karachi, Karachi	2004 - 2009
<b>Assistant Professor</b> Pakistan Naval Academy , Pakistan Naval Academy, Manora Karachi	1998 - 2004
<b>Lecturer</b> PNS KARSAZ, Karachi , PNS KARSAZ Shahrah-e-Faisal , Karachi	1997 - 1998
<b>Lecturer</b> Pakistan Navy , PNS HIMALAYA, Karachi	1993 - 1997

Professional Memberships

NA

Research Articles

<b>A unique statistical framework to predict the health of a machine by utilizing the vibration features of rolling element bearing data</b> <i>Saima Bhatti Fozia Shaikh Asif Mansoor Asif Ali Shaikh</i> <i>Mehran University Research Journal of Engineering and Technology</i> , Volume 44(3), Pages 37-41 <b>Impact Factor:</b> 0.700   <b>Quartile:</b> 3 <b>DOI:</b> <a href="https://doi.org/10.22581/muet1982.0166">https://doi.org/10.22581/muet1982.0166</a>	2025
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<b>Optimization of a Geothermal Multi-Generation Energy System: Energy, Exergy and Cost for Use in Coastal and Tropical Environments</b> <i>Asif Mansoor Muhammad A.M. Abdulmannan Zaeem Shabbir Behzad Ahmed Zai Najam us Saqib</i> <i>Journal of Maritime Research</i> , Volume XXI, No. III, Pages 199-208 <b>Impact Factor:</b> N/A   <b>Quartile:</b> 2 <b>DOI:</b> <a href="https://orcid.org/0000-0002-8592-7213">https://orcid.org/0000-0002-8592-7213</a>	2024
<b>Characterization and Development of Ceramics with Inorganic Additives</b> <i>Mirza Awais Arif Asif Mansoor Imran Shah Murtaza Hussain Muhammad Asif</i> <i>Inventions</i> , Volume: 9, Issue: 6, Article Number: 121, Pages:14 <b>Impact Factor:</b> 2.1   <b>Quartile:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.3390/inventions9060121">https://doi.org/10.3390/inventions9060121</a>	2024
<b>Extraction and classification of vibration features of rolling element bearing with increasing the rotational speed</b> <i>Saima Bhatti Asif Ali Shaikh Asif Mansoor Ramsha Shaikh</i> <i>Mehran University Research Journal of Engineering and Technology</i> , Volume 43(4), Pages 182-191 <b>Impact Factor:</b> 0.600   <b>Quartile:</b> 3 <b>DOI:</b> <a href="https://doi.org/10.22581/muet1982.3281">https://doi.org/10.22581/muet1982.3281</a>	2024
<b>New Approaches of Stochastic Models to Examine the Vibration Features in Roller Bearings</b> <i>Saima Bhatti Asif Ali Shaikh Asif Mansoor Murtaza Hussain</i> <i>Applied Sciences</i> , Volume 14(4), Article Number 1616 <b>Impact Factor:</b> 2.7   <b>Quartile:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.3390/app14041616">10.3390/app14041616</a>	2024
<b>Damage quantification of a metallic beam under thermo-mechanical loads using novel empirical correlations and neural network</b> <i>Behzad Ahmed Zai Asif Mansoor Jahanzeb Javed Najam Us Saqib</i> <i>Noise and Vibration Worldwide</i> , Volume 55, Issue 1-2, Pages 68-83 <b>Impact Factor:</b> N/A   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1177/09574565231222616">10.1177/09574565231222616</a>	2024
<b>Numerical Estimation and Validation of Drag Force for KCS Hull using STAR CCM+</b> <i>Obaid Ullah Khan Zeeshan Riaz Asif Mansoor Behzad Ahmed Zai Najam us Saqib</i> <i>Journal of Maritime Research</i> , Volume XX, No. III, Pages 46-50 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://www.jmr.unican.es/index.php/jmr/article/view/728">https://www.jmr.unican.es/index.php/jmr/article/view/728</a>	2023
<b>Vibration Analysis Approach to Model Incremental Wear and Associated Sound in Multi-Contact Sliding Friction Mechanisms</b> <i>Kanza Basit Hamza Shams Muhammad Ali Khan Asif Mansoor</i> <i>Journal of Tribology</i> , Volume 145(9), Article Number 091109 <b>Impact Factor:</b> 2.5   <b>Quartile:</b> 3   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.1115/1.4062720">https://doi.org/10.1115/1.4062720</a>	2023
<b>An Empirical and Numerical Approach to Evaluate Submarine Resistance in Fully Submerged Configuration with Experimental validation</b> <i>Muhammad Asad Asif Mansoor Behzad Ahmed Zai Murtaza Hussain Najam us Saqib</i> <i>Journal of Maritime Research</i> , Vol XX. No. II, Pages 42-51 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://www.jmr.unican.es/index.php/jmr/article/view/713">https://www.jmr.unican.es/index.php/jmr/article/view/713</a>	2023
<b>Virtual Captive Model tests for Maneuvering Prediction</b> <i>Obaid Ullah Khan Asif Mansoor Behzad Ahmed Zai Murtaza Hussain Najam us Saqib Tariq Jamil</i> <i>Journal of Maritime Research</i> , Volume 19, No. 3, Pages 47-51 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://www.jmr.unican.es/index.php/jmr/article/view/661">https://www.jmr.unican.es/index.php/jmr/article/view/661</a>	2022
<b>Structural Performance of Fusion Weld Based on Weld Parameters and Strain Rate in High-Density Polyethylene</b> <i>Ahmed Faraz Behzad Ahmed Zai Salman Nisar Asif Mansoor Rashid Ali</i> <i>Journal of Testing and Evaluation</i> , Pages 1-18 <b>Impact Factor:</b> 1.264   <b>Quartile:</b> 3   <b>Citations:</b> 1 <b>DOI:</b> <a href="https://doi.org/10.1520/JTE20210139">https://doi.org/10.1520/JTE20210139</a>	2021

- Scalable wear resistant 3D printed slippery liquid infused porous surfaces (SLIPS)** 2021  
*Hamza Shams Kanza Basit Muhammad Ali Khan Asif Mansoor Sajid Saleem*  
*Additive Manufacturing* , Volume 8, Part A, Article Number 102379  
**Impact Factor:** 10.998 | **Quartile:** 1 | **Citations:** 19  
**DOI:** <https://doi.org/10.1016/j.addma.2021.102379>
- Investigation the fault in a Rotating Machine by Utilizing Vibration Technique** 2021  
*S Bhatti Asif Shaikh NUST-PNEC W Shaikh*  
*Sindh University Research Journal- Science Series* , Volume 53 (03), Pages 257- 264  
**Impact Factor:** -  
**DOI:** <https://sujo.usindh.edu.pk/index.php/SURJ/article/view/4033>
- Measurement of Structural Performance of Fusion Weld with Change of Welding Parameters in High-Density Polyethylene** 2021  
*Ahmed Faraz Behzad Ahmed Zai Salman Nisar Asif Mansoor Ali Rashid*  
*Journal of Testing and Evaluation* , Volume 49, Pages 1-14  
**Impact Factor:** 1.333 | **Quartile:** 3  
**DOI:** <https://doi.org/10.1520/JTE20200273>.
- Some New Results on Controllability and Observability for Impulsive Dynamic Systems** 2021  
*Asif Mansoor Safia Mirza Awais Younus*  
*Jordan Journal of Mathematics and Statistics* , Volume 14(1), Pages 43-72  
**Impact Factor:** -  
**DOI:** <https://journals.yu.edu.jo/jjms/Vol14No1Contents2021.html>
- Realizing surface amphiphobicity using 3D printing techniques: A critical move towards manufacturing low-cost reentrant geometries** 2021  
*Hamza Shams Muhammad Ali Khan Sajid Saleem Asif Mansoor Kanza Basit*  
*Additive Manufacturing* , Volume 38, Article Number 101777  
**Impact Factor:** 10.998 | **Quartile:** 1 | **Citations:** 19  
**DOI:** <https://doi.org/10.1016/j.addma.2020.101777>
- Constraint Cycles in Quadratic Framework with Their Properties** 2020  
*Safia Mirza Asif Mansoor Talat Sharaft Rehmani Saima Bhatti*  
*Sind University Research Journal (Science Series)* , Volume 52(04), Pages 375-380  
**Impact Factor:** 0  
**DOI:** <http://doi.org/10.26692/sujo/2020.12.56>
- Neural Network Implementations on the coastal water quality of Manora channel for the years 1996 to 2014** 2020  
*Sidra Ghayas Junaid Sagheer Siddiquie Suboohi Safdar Asif Mansoor*  
*International Journal of Circuits, Systems and Signal Processing* , Volume 14, Pages 996-1004  
**Impact Factor:** 0 | **Citations:** 3  
**DOI:** DOI: 10.46300/9106.2020.14.127
- Controllability and Observability of linear impulsive adjoint dynamic system on Time Scale** 2020  
*Nusrat Yasmin Safia Mirza Awais Younus Asif Mansoor*  
*Tamkang Journal of Mathematics* , Volume 51, Number 3, Pages 201-217  
**Impact Factor:** - | **Citations:** 3  
**DOI:** <https://doi.org/10.5556/j.tkm.51.2020.2951>
- Deep Learning Algorithm for Brain Computer Interface** 2020  
*Noreen Jamil M. Asif Naeem Asif Mansoor Muhammad Waleed Usman*  
*Scientific Programming* , Volume 2020, Article ID 5762149, 12 pages  
**Impact Factor:** 1.025 | **Quartile:** 4 | **Citations:** 21  
**DOI:** <https://doi.org/10.1155/2020/5762149>
- A Novel approach for damage quantification using the dynamic response of a metallic beam under thermo-mechanical loads** 2020  
*BEHZAD AHMED ZAI MUHAMMAD ALI KHAN Kamran Ahmed Khan BEHZAD AHMED ZAI MUHAMMAD ALI KHAN Kamran Ahmed Khan Asif Mansoor*  
*Journal of Sound and Vibration* , Volume 469, Article Number 115134  
**Impact Factor:** 3.655 | **Quartile:** 1 | **Citations:** 26  
**DOI:** <https://doi.org/10.1016/j.jsv.2019.115134>

**An Application of Principal Component Analysis for the Temporal Variations in Water Quality Data of Manora Channel: Karachi**

2019

*Sidrah Ghayas Junaid Sagheer Siddiquie Suboohi Safdar Asif Mansoor Sidrah Ghayas Junaid Sagheer Siddiquie Suboohi Safdar*  
*International Journal of Computer Science and Network Security* , Volume: 19, Issue: 5, Pages: 1-8

**Impact Factor:** -

**DOI:** NA

**Prediction of Crack Depth and Fatigue Life of an Acrylonitrile Butadiene Styrene Cantilever Beam Using Dynamic Response**

2019

*Behzad Ahmed Zai Muhammad Ali Khan Sohaib Zia Khan Muhammad Asif Kamran Ahmed Khan Ahmed N Saquid Asif Mansoor Majid Shahzad Ahmed Mujtaba*

*Journal of Testing and Evaluation*, Volume 48, No. 2, Pages 1-18

**Impact Factor:** 0.877 | **Quartile:** 4 | **Citations:** 29

**DOI:** <https://doi.org/10.1520/JTE20180674>

**Instant dynamic response measurements for crack monitoring in metallic beams**

2019

*Behzad Ahmed Zai Muhammad Ali Khan Asif Mansoor Sohaib Zia Khan Kamran Ahmed Khan*  
*Insight- Non-Destructive Testing and Condition Monitoring*, Volume 61, Issue 4, Pages 222-229

**Impact Factor:** 0.783 | **Quartile:** 4 | **Citations:** 13

**DOI:** 10.1784/insi.2019.61.4.222

**Bearing Degradation Prognosis Using Structural Break Classifier**

2018

*Murtaza Hussain Asif Mansoor Shafiq-ur-Rehman Qureshi Salman Nisar*  
*Mechanika* , Volume: 24, Issue: 4, Pages 456-461

**Impact Factor:** 0.500 | **Quartile:** 4 | **Citations:** 1

**DOI:** <https://doi.org/10.5755/j01.mech.4.24.20740>

**Machinery Health Prognosis - Data Driven Approach Using Threshold Regression**

2018

*Murtaza Hussain Asif Mansoor Abdul Sattar Soomro Mushtaq Hussain*  
*Sindh University Research Journal (Science Series)* , Vol.50 (01), Pages159-164

**Impact Factor:** -

**DOI:** <http://doi.org/10.26692/sujo/2018.1.0028>

**Exact Solutions of Steady Plane Flows of an Incompressible Fluid of Variable Viscosity in The Presence of Unknown External Force Using  $(\epsilon, \psi)$ – or  $(\eta, \psi)$ -Coordinates**

2009

*Rana Khalid Naeem Asif Mansoor Waseem Ahmed Khan*  
*Thai Journal of Mathematics*, Volume 7, Number 2, Pages 259–284

**Impact Factor:** 0

**DOI:** <http://thaijmath.in.cmu.ac.th/index.php/thaijmath/article/view/125>

## Conference Proceedings

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- Hullform Design, Optimization and Controllability of a Small Waterplane Area Twin Hull (SWATH)** 2022  
*Adil Hassan Zeeshan Riaz Naveed.Ali Dr Asif Mansoor Muhammad Asif*  
2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)  
**Citations:** 1  
**DOI:** 10.1109/IBCAST54850.2022.9990483
- An Empirical and Numerical Approach to Develop a Single and Multi-phase CFD Methodology for submarines and ship** 2021  
*Muhammad Asad Asif Mansoor Zeeshan Riaz Murtaza Hussain*  
18th International Bhurban Conference on Applied Sciences & Technology (IBCAST), res.country(177,)  
**Citations:** N/A  
**DOI:** <http://www.ibcast.org.pk/>
- Wear Behavior of 3D Printed PLA Surfaces for Superhydrophobic Interaction** 2020  
*Hamza Shams Kanza Basit Muhammad A. Khan Asif Mansoor*  
TESConf 2020 - 9th International Conference on Through-life Engineering Services, res.country(233,)  
**Citations:** N/A  
**DOI:** <http://dx.doi.org/10.2139/ssrn.3717991>
- Empirical Modelling of Frictional Noise and Two-Point Contact using Ball-On-Disc Tribometer** 2020  
*Kanza Basit Hamza Shams Muhammad A. Khan Asif Mansoor*  
9th International Conference on Through-life Engineering Service, Cranfield UK, res.country(231,)  
**Citations:** N/A  
**DOI:** <http://dx.doi.org/10.2139/ssrn.3717985>
- Effects of Varying Peak Shape on Aerodynamic Performance of a Corrugated Airfoil** 2020  
*Zaeem Shabbir Hassan R. Shah Asif Mansoor Syed M. Tayyab Anwar Ahmed*  
AIAA Scitech 2020 Forum, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.2514/6.2020-2220

## Book Chapters

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- Energy management in gas distribution networks** 2025  
*Murtaza Hussain Asif Mansoor Syed Ahsan Ali*  
In: *Comprehensive Energy Systems (Second Edition)*, 2nd Edition, Volume 10, Pages 370-402  
**Citations:** N/A  
**DOI:** <https://doi.org/10.1016/B978-0-44-313219-3.00190-8>
- Machine learning in energy management** 2025  
*Murtaza Hussain Asif Mansoor S. Mujtaba Hussain Kazmi*  
In: *Comprehensive Energy Systems*, 2nd Edition, Volume 10, Pages 650-687  
**Citations:** N/A  
**DOI:** <https://doi.org/10.1016/B978-0-44-313219-3.00191-X>