

Anwar Hussain

Associate Professor

School of Mechanical & Manufacturing Engineering

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Contact:



About

Dr. Anwar Hussain is working as Associate Professor in the School of Mechanical & Manufacturing Engineering. Dr. Anwar Hussain has a PhD in Mathematics. Dr. Anwar Hussain has published 24 research articles & conference papers having a citation count of 568, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Quaid-i-Azam University , Pakistan	2006 - 2010
MIT in Computer & Management COMSATS, Abbottabad , Pakistan	2002 - 2004
MPhil in Applied Mathematics UET Lahore , Pakistan	1995 - 2000
MSc in Applied Mathematics University of the Punjab , Pakistan	1986 - 1988
BSc in Applied Math University of the Punjab , Pakistan	1983 - 1985

Experience

Associate Professor School of Mechanical & Manufacturing Engineering	2021- Present
Assistant Professor Foundation University, , Foundation University, Rawalpindi	2021 - 2021
Instr NUST College of EME , Rawalpindi	2015 - 2019
GSO-1 ALRG , ALRG	2010 - 2015
Instr PMA Kakul , Abottabad	1997 - 2004

Research Projects

National Projects

Computational Modeling of Pulsatile Magneto-Peristaltic Flow of Nanofluids with thermal radiation and Viscosity for Biomedical Pumps and Injectors	2025
Funding Agency: Institutional Funding Program Saudi- Arabia	
Amount: PKR 3,780,000.00	
Status: Approved_inprocess	

International Projects

Research Articles

Natural convection of Cu-H₂O nanofluid inside hexagonal enclosure fitted with a square cavity with a non-uniformly heated wall(s)	2023
<i>Naeem Faraz Muhammad Shemyal Nisar Yasir Khan Anwar Hussain Kaleem Iqbal</i>	
<i>Results in physics</i> , Volume 51, August 2023, 106648	

- Impact Factor:** 4.565 | **Quartile:** 2 | **Citations:** 22
DOI: 10.1016/j.rinp.2023.106648
- Convection theory on thermally radiative peristaltic flow of Prandtl tilted magneto nanofluid in an asymmetric channel with effects of partial slip and viscous dissipation** 2023
Safia Akram Khalid Saeed Maria Athar Alia Razia Anwar Hussain Iram Naz
Materials Today Communications, Volume 35, Article Number 106171
Impact Factor: 3.662 | **Quartile:** 3 | **Citations:** 25
DOI: 10.1016/j.mtcomm.2023.106171
- Hybrid double-diffusivity convection and induced magnetic field effects on peristaltic waves of Oldroyd 4-constant nanofluids in non-uniform channel** 2023
Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Anwar Hussain
Alexandria Engineering Journal, Volume 65, Pages 785-796
Impact Factor: 6.626 | **Quartile:** 1 | **Citations:** 36
DOI: <https://doi.org/10.1016/j.aej.2022.10.039>
- Compaction in a Class of Nonlinear Partial Differential Equations** 2022
Tawawar Abbas Qazi Mahmood ul Hassan Anwar Hussain Maheen Fatima Bilal Ahmad
Journal of Science and Arts, Volume 22, Issue 4, Pages 919-928
Impact Factor: N/A
DOI: 10.46939/J.Sci.Arts-22.4-a13
- Consequence of Double-Diffusion Convection and Partial Slip on Magneto-Oldroyd-4 Constants Nanofluids with Peristaltic Propulsion in an Asymmetric Channel** 2022
Maria Athar Yasir Khan Safia Akram Khalid Saeed A. Alameer Anwar Hussain
Complexity, Volume 2022, Article ID 7634357, 20 pages
Impact Factor: 2.121 | **Quartile:** 2 | **Citations:** 14
DOI: <https://doi.org/10.1155/2022/7634357>
- Effects of Double Diffusive Convection and Inclined Magnetic Field on the Peristaltic Flow of Fourth Grade Nanofluids in a Non-Uniform Channel** 2022
Yasir Khan Safia Akram Alia Razia Anwar Hussain H. A. Alsulaimani
Nanomaterials, Volume 12(17), Article Number 3037
Impact Factor: 5.719 | **Quartile:** 1 | **Citations:** 33
DOI: <https://doi.org/10.3390/nano12173037>
- The role of double-diffusion convection and induced magnetic field on peristaltic pumping of a johnson–segalman nanofluid in a non-uniform channel** 2022
Yasir Khan Safia Akram Maria Athar Khalid Saeed Taseer Muhammad Anwar Hussain Muhammad Imran H. A. Alsulaimani
Nanomaterials, Volume 12(7), Article Number 1051
Impact Factor: 5.076 | **Quartile:** 2 | **Citations:** 28
DOI: <https://doi.org/10.3390/nano12071051>
- Slip boundaries effects on double-diffusive convection of magneto-pseudoplastic nanofluid on peristaltic flux in an inclined asymmetric channel** 2021
Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Anwar Hussain
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Pages 1-13
Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 5
DOI: <https://doi.org/10.1177/09544089211063071>
- On Stokes' second problem for Burgers' fluid over a plane wall** 2021
Safia Akram Asia Anum Masood Khan Anwar Hussain
Journal of Applied and Computational Mechanics, Volume 7, Issue 3, Pages 1514-1526
Impact Factor: - | **Citations:** 9
DOI: 10.22055/JACM.2020.35227.2603
- Integral transform method for a porous slider with magnetic field and velocity slip** 2020
Naeem Faraz Yasir Khan Amna Anjum Anwar Hussain
CMES - Computer Modeling in Engineering and Sciences, Volume 122, No.3, Pages 1099-1118
Impact Factor: 1.593 | **Quartile:** 3 | **Citations:** 3
DOI: doi:10.32604/cmcs.2020.08389
- Impact of Velocity Second Slip and Inclined Magnetic Field on Peristaltic Flow Coating with Jeffrey Fluid in Tapered Channel** 2020
Safia Akram Farkhanda Afzal Najma Saleem Emad H. Aly Anwar Hussain

- Effects of inclined magnetic field on peristaltic flow of a hyperbolic tangent fluid model with double-diffusive convection in nanofluids** 2016
Safia Akram M. Zafar Anwar Hussain M. A.Rana
Revista Tecnica de la Facultad de Ingenieria Universidad del Zulia, Volume 39, Issue 8, Pages 186-207
Impact Factor: 0
DOI: 10.21311/001.39.8.24
- Partial Slip Consequences on Peristaltic Transport of Williamson Fluid in an Asymmetric Channel** 2015
Safia Akram Sohail Nadeem Anwar Hussain
Walailak Journal of Science and Technology, Volume 12, Issue 10, Pages 885-908
Impact Factor: 0
DOI: 10.14456/WJST.2015.47
- Influence of Induced Magnetic Field and Partial Slip on the Peristaltic Flow of a Couple Stress Fluid in an Asymmetric Channel** 2014
Safia Akram S. Nadeem Anwar Hussain
Iranian Journal of Chemistry and Chemical Engineering, Volume 33, Issue 3, Pages 43-52
Impact Factor: 0.325 | Quartile: 4
DOI: http://www.ijcce.ac.ir/article_11330.html
- Effects of heat and mass transfer on peristaltic flow of a Bingham fluid in the presence of inclined magnetic field and channel with different wave forms** 2014
Safia Akram Sohail Nadeem Anwar Hussain
Journal of Magnetism and Magnetic Material, Volume 362, Pages 184-192
Impact Factor: 1.970 | Quartile: 2 | Citations: 73
DOI: 10.1016/j.jmmm.2014.02.063
- Influence of lateral walls on peristaltic flow of a third grade fluid in a rectangular duct** 2014
Safia Akram Nadeem S Anwar Hussain
Journal of Applied Mechanical Engineering, Volume 3, Issue 2
Impact Factor: 0
DOI: 10.4172/2168-9873.1000140
- Series solutions for unsteady stagnation point flows of a non-newtonian fluid over a shrinking sheet** 2013
Sohail Nadeem Anwar Hussain Noreen Sher Akbar
Composites: Mechanics, Computations, Applications, Volume 4, Issue 4, Pages 303-318
Impact Factor: 0.0
DOI: 10.1615/CompMechComputApplIntJ.v4.i4.30
- Unsteady linear viscoelastic fluid model over a stretching/shrinking sheet in the region of stagnation point flows** 2012
Anwar Hussain Yasir Khan Naeem Faraz
Scientia Iranica, Volume 19, Issue 6, Pages 1541-1549
Impact Factor: 0.537 | Quartile: 3 | Citations: 24
DOI: <https://doi.org/10.1016/j.scient.2012.10.019>
- Series solutions for the stagnation flow of a maxwell fluid over a shrinking sheet** 2011
Sohail Nadeem Noreen Sher Akbar Ahmet Yildirm Anwar Hussain M. Ali
Composites: Mechanics, Computations, Applications, Volume: 2, Issue 4, Pages: 1–15 .
Impact Factor: 0 | Citations: 3
DOI: DOI: 10.1615/CompMechComputApplIntJ.v2.i4.20
- Effects of Heat Transfer on the Stagnation Flow of a Third-Order Fluid over a Shrinking Sheet** 2010
Anwar Hussain Sohail Nadeem Kuppalapalle Vajravelu
Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, Volume 65a, Pages 969-994
Impact Factor: 0.933 | Quartile: 3
DOI: 10.1515_zna-2010-1109
- HAM solutions for boundary layer flow in the region of the stagnation point towards a stretching sheet** 2010
Anwar Hussain Sohail Nadeem Majid Khan
Communications in Nonlinear Science and Numerical Simulation, Volume 15, Issue 3, Pages 475-481

Impact Factor: 2.698 | **Quartile:** 1 | **Citations:** 146

DOI: <https://doi.org/10.1016/j.cnsns.2009.04.037>

Stagnation flow of a Jeffrey fluid over a shrinking sheet

2010

Sohail Nadeem Anwar Hussain Majid Khan

Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, Volume 65, Issue 6-7, Pages 540-548

Impact Factor: 0.850 | **Quartile:** 3 | **Citations:** 45

DOI: doi.org/10.1515/zna-2010-6-709

MHD flow of a viscous fluid on a nonlinear porous shrinking sheet with homotopy analysis method

2009

Sohail Nadeem Anwar Hussain

Applied Mathematics and Mechanics-English Edition, Volume 30, Issue 12, Pages 1569-1578

Impact Factor: 0.393 | **Quartile:** 4 | **Citations:** 47

DOI: [10.1007/s10483-009-1208-6](https://doi.org/10.1007/s10483-009-1208-6)

Series solutions for the stagnation flow of a second-grade fluid over a shrinking sheet

2009

Sohail Nadeem Anwar Hussain M. Y. Malik T. Hayat

Applied Mathematics and Mechanics-English Edition, Volume 30, Issue 10, Pages 1255-1262

Impact Factor: 0.393 | **Quartile:** 4 | **Citations:** 34

DOI: [10.1007/s10483-009-1005-6](https://doi.org/10.1007/s10483-009-1005-6)

Editorial Activities

Fluids

2022

Reviewed Papers for Journals

Impact Factor: NA