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 2006 - 2010
Quaid-i-Azam University , Pakistan

MIT in Computer & Management 2002 - 2004
COMSATS, Abbottabad , Pakistan

MPhil in Applied Mathematics 1995 - 2000
UET Lahore , Pakistan

MSc in Applied Mathematics 1986 - 1988
University of the Punjab , Pakistan

BSc in Applied Math 1983 - 1985
University of the Punjab , Pakistan

Experience

Associate Professor 2021- Present
School of Mechanical & Manufacturing Engineering

Assistant Professor 2021 - 2021
Foundation University, , Foundation University, Rawalpindi

Instr 2015 - 2019
NUST College of EME , Rawalpindi

GSO-1 2010 - 2015
ALRG , ALRG

Instr 1997 - 2004
PMA Kakul , Abottabad

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
Naeem Faraz Muhammad Shemyal Nisar Yasir Khan Anwar Hussain Kaleem Iqbal
Results in physics, 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/cmes.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

Coatings , Volume 10(1), Article Number 30

Impact Factor: 2.881 | **Quartile:** 2 | **Citations:** 21
DOI: doi:10.3390/coatings10010030

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 Husssin
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

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

Editorial Activities

Fluids 2022
Reviewed Papers for Journals
Impact Factor: NA