

Waqar Ahmed Khan

Professor

Pakistan Navy Engineering College

Email: mohsin_naqvi@ncls.com

Contact:



About

Dr. Waqar Ahmed Khan is working as Professor in the Pakistan Navy Engineering College. Dr. Waqar Ahmed Khan has published 30 research articles & conference papers having a citation count of 2832, carried out 0 projects and filed 0 intellectual property.

Qualifications

Experience

Professor Pakistan Navy Engineering College	2018- Present
Professor Pakistan Navy Engineering College	2009 - 2018
Associate Professor Pakistan Navy Engineering College	2007 - 2009

Research Articles

Exergetic analysis of the humidification-dehumidificationdesalination cycle involving variation in top temperature <i>Sidra Zahid Shafiq-Ur-Rehman Qureshi Waqar Ahmed Khan Umer Zahid</i> <i>Applied Thermal Engineering</i> , Volume 215, Article Number 118998 Impact Factor: 6.4 Quartile: 1 Citations: 2 DOI: 10.1016/j.applthermaleng.2022.118998	2022
Boundary Layer Flow Past a Stretching Surface in a Porous Medium Saturated by a Nanofluid: Brinkman-Forchheimer Model <i>Waqar Ahmed Khan Ioan M. Pop</i> <i>PLoS One</i> , Volume 7(10), Article Number e47031 Impact Factor: 3.730 Quartile: 1 Citations: 26 DOI: https://doi.org/10.1371/journal.pone.0047031	2012
Similarity Solutions of MHD Mixed Convection Flow with Variable Reactive Index, Magnetic Field, and Velocity Slip Near a Moving Horizontal Plate: A Group Theory Approach <i>Waqar Ahmed Khan Md. Jashim Uddin A. I. Md. Ismail</i> <i>Mathematical Problems in Engineering</i> , Volume 2012, Article ID 183029, 15 pages Impact Factor: 1.383 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1155/2012/183029	2012
Transient heat transfer in a functionally graded convecting longitudinal fin <i>Waqar Ahmed Khan Abdul Aziz</i> <i>Heat and Mass Transfer</i> , Volume 48 (10), Pages 1745-1753 Impact Factor: 0.840 Quartile: 3 Citations: 40 DOI: https://doi.org/10.1007/s00231-012-1020-z	2012
Second law analysis for free convection in non-newtonian fluids over a horizontal plate embedded in a porous medium: (prescribed heat flux) <i>Waqar Ahmed Khan S. R. Gorla</i> <i>Brazilian Journal of Chemical Engineering</i> , Volume 29, No.3, Pages 511-518 Impact Factor: 0.894 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1590/S0104-66322012000300008	2012

- Lie Group Analysis of Natural Convective Flow from a Convectively Heated Upward Facing Radiating Permeable Horizontal Plate in Porous Media Filled with Nanofluid** 2012
Md. Jashim Uddin Waqar Ahmed Khan A. I. Md. Ismail
Journal of Applied Mathematics, Volume 2012, Article ID 648675, 18 pages
Impact Factor: 0.834 | **Quartile:** 2 | **Citations:** 11
DOI: <https://doi.org/10.1155/2012/648675>
- Scaling Group Transformation for MHD Boundary Layer Slip Flow of a Nanofluid over a Convectively Heated Stretching Sheet with Heat Generation** 2012
Md. Jashim Uddin Waqar Ahmed Khan A. I. Md. Ismail
Mathematical Problems in Engineering, Volume 2012, Article ID 934964, 20 pages
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DOI: <https://doi.org/10.1155/2012/934964>
- Free Convection Boundary Layer Flow from a Heated Upward Facing Horizontal Flat Plate Embedded in a Porous Medium Filled by a Nanofluid with Convective Boundary Condition** 2012
Md. Jashim Uddin Waqar Ahmed Khan A. I. Md. Ismail
Transport in Porous Media, Volume: 92, Issue: 3, Pages 867-881
Impact Factor: 1.551 | **Quartile:** 2 | **Citations:** 57
DOI: <https://doi.org/10.1007/s11242-011-9938-z>
- Boundary-Layer Stagnation-Point Flow Toward a Stretching Surface in a Porous Nanofluid-Filled Medium** 2012
Waqar Ahmed Khan I. Pop
Journal of Thermophysics and Heat Transfer, Volume: 26, Issue: 1, Pages 147-153
Impact Factor: 0.881 | **Quartile:** 2 | **Citations:** 12
DOI: <https://doi.org/10.2514/1.T3680>
- Entropy generation in an asymmetrically cooled hollow sphere with temperature dependent internal heat generation** 2012
Abdul Aziz Waqar Ahmed Khan
International Journal of Exergy, Volume: 10, Issue: 1, Pages: 110-123
Impact Factor: 0.921 | **Quartile:** 3 | **Citations:** 10
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- Minimum entropy generation design of a convectively heated pin fin with tip heat loss** 2012
Abdul Aziz Waqar Ahmed Khan
International Journal of Exergy, Volume: 10, Issue: 1, Pages: 44-60
Impact Factor: 0.921 | **Quartile:** 4 | **Citations:** 11
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- Classical and minimum entropy generation analyses for steady state conduction with temperature dependent thermal conductivity and asymmetric thermal boundary conditions: Regular and functionally graded materials** 2011
A. Aziz Waqar Ahmed Khan
Energy, Volume 36, Issue 10, Pages 6195-6207
Impact Factor: 3.487 | **Quartile:** 1 | **Citations:** 47
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- Second Law Analysis for Free Convection in Non-Newtonian Fluids Over a Horizontal Plate Embedded in a Porous Medium: Prescribed Surface Temperature** 2011
Waqar Ahmed Khan Rama Subba Reddy Gorla
Journal of Heat Transfer, Volume 133, Issue 5, Article Number 052601
Impact Factor: 1.830 | **Quartile:** 1 | **Citations:** 10
DOI: <https://doi.org/10.1115/1.4003045>
- Entropy Generation in Non-Newtonian Fluids Along a Horizontal Plate in Porous Media** 2011
Waqar Ahmed Khan Rama Subba Reddy Gorla
Journal of Thermophysics and Heat Transfer, Volume 25, Issue 2, Pages 298-303
Impact Factor: 0.739 | **Quartile:** 3 | **Citations:** 15
DOI: <https://doi.org/10.2514/1.51200>
- Heat Transfer from Rotating Porous Plate Using Homotopy Perturbation Method** 2010
Naila Kulsoom Waqar Ahmed Khan
Journal of Thermophysics and Heat Transfer, Volume 24, No. 4, Pages 777-784

- Impact Factor:** 0.823 | **Quartile:** 2
DOI: 10.2514/1.37452
- Flow near the two-dimensional stagnation-point on an infinite permeable wall with a homogeneous-heterogeneous reaction** 2010
Waqar Ahmed Khan I. Pop
Communications in Nonlinear Science and Numerical Simulation, Volume: 15, Issue: 11, Pages: 3435-3443
Impact Factor: 2.698 | **Quartile:** 1 | **Citations:** 58
DOI: <https://doi.org/10.1016/j.cnsns.2009.12.022>
- Boundary-layer Flow of a Nano-fluid Past a Stretching Sheet** 2010
Waqar Ahmed Khan I. Pop
International Journal of Heat and Mass Transfer, Volume 53, Issues 11-12, Pages 2477-2483
Impact Factor: 1.899 | **Quartile:** 1 | **Citations:** 2210
DOI: <https://doi.org/10.1016/j.ijheatmasstransfer.2010.01.032>
- Nonsimilar Solutions for Mixed Convection of Water at 4° C over a Vertical Surface with Prescribed Surface Heat Flux in a Porous Medium** 2010
Waqar Ahmed Khan R.S.R. Gorla
Journal of Porous Media, Volume 13, Issue 11, Pages 1025-1032
Impact Factor: 0.707 | **Quartile:** 2 | **Citations:** 4
DOI: 10.1615/JPorMedia.v13.i11.90
- Heat Transfer in electro-osmotic Flow of Power-Law Fluids in a Slit Microchannel** 2010
Waqar Ahmed Khan Rama Subba Reddy Gorla
International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena, Volume 1, Issue 3, Pages 255-270
Impact Factor: N/A
DOI: -
- Optimization of Microchannel Heat Sinks Using Entropy Generation Minimization Method** 2009
Waqar Ahmed Khan J. Richard Culham M. Michael Yovanovich
IEEE Transactions on Components and Packaging Technologies, Volume 32, No. 2, Pages 243-251
Impact Factor: 0.944 | **Quartile:** 3 | **Citations:** 66
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Waqar Ahmed Khan Zafar H. Khan
NUST Journal of Engineering Sciences, Volume 2, No. 1, Pages 37-45
Impact Factor: 0
DOI: <https://doi.org/10.24949/njes.v2i1.123>
- Optimization of Cylindrical Pin-Fin Heat Sinks Using Genetic Algorithms** 2009
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Impact Factor: 0.944 | **Quartile:** 3 | **Citations:** 22
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- Effect of Variable Thermal conductivity on Heat Transfer from a Hollow Sphere with Heat Generation using HPM** 2009
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Waqar Ahmed Khan M. M. Yovanovich
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R. Ahmad Waqar Ahmed Khan

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