Waqar Ahmed Khan

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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 2018- Present
Pakistan Navy Engineering College

Professor 2009 - 2018
Pakistan Navy Engineering College

Associate Professor 2007 - 2009
Pakistan Navy Engineering College

Research Articles

Exergetic analysis of the humidification-dehumidificationdesalination cycle involving variation in top temperature 2022
Sidra Zahid Shafiq-Ur-Rehman Qureshi Waqar Ahmed Khan Umer Zahid
Applied Thermal Engineering, Volume 215, Article Number 118998
Impact Factor: 6.4 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1016/j.applthermaleng.2022.118998

Boundary Layer Flow Past a Stretching Surface in a Porous Medium Saturated by a Nanofluid: Brinkman-Forchheimer Model 2012
Waqar Ahmed Khan Ioan M. Pop
PLoS One, Volume 7(10), Article Number e47031
Impact Factor: 3.730 | **Quartile:** 1 | **Citations:** 26
DOI: https://doi.org/10.1371/journal.pone.0047031

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 2012
Waqar Ahmed Khan Md. Jashim Uddin A. I. Md. Ismail
Mathematical Problems in Engineering, Volume 2012, Article ID 183029, 15 pages
Impact Factor: 1.383 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.1155/2012/183029

Transient heat transfer in a functionally graded convecting longitudinal fin 2012
Waqar Ahmed Khan Abdul Aziz
Heat and Mass Transfer, Volume 48 (10) , Pages 1745-1753
Impact Factor: 0.840 | **Quartile:** 3 | **Citations:** 40
DOI: https://doi.org/10.1007/s00231-012-1020-z

Second law analysis for free convection in non-newtonian fluids over a horizontal plate embedded in a porous medium: (prescribed heat flux) 2012
Waqar Ahmed Khan S. R. Gorla
Brazilian Journal of Chemical Engineering, Volume 29, No.3, Pages 511-518
Impact Factor: 0.894 | **Quartile:** 3 | **Citations:** 6
DOI: https://doi.org/10.1590/S0104-66322012000300008

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

Impact Factor: 1.383 | **Quartile:** 2 | **Citations:** 45

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

DOI: https://doi.org/10.1504/IJEX.2012.045064

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

DOI: https://doi.org/10.1504/IJEX.2012.045060

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

DOI: https://doi.org/10.1016/j.energy.2011.07.042

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 Golra

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
DOI: 10.1109/TCAPT.2009.2022586

Heat Transfer from Solids with Variable Thermal Conductivity and Uniform Internal Heat Generation using Homotopy perturbation Method 2009

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

Sajjad Mohsin Ayesha Maqbool Waqar Ahmed Khan

IEEE Transactions on Components and Packaging Technologies, Volume 32, Issue 1, Pages 44-52

Impact Factor: 0.944 | **Quartile:** 3 | **Citations:** 22
DOI: 10.1109/TCAPT.2008.2004412

Effect of Variable Thermal conductivity on Heat Transfer from a Hollow Sphere with Heat Generation using HPM 2009

Waqar Ahmed Khan Zafar H. Khan

NUST Journal of Engineering Sciences, Volume 2, No. 1, Pages 46-53

Impact Factor: 0
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Analytical Modeling of Fluid Flow and Heat Transfer in Microchannel/Nanochannel Heat Sinks 2008

Waqar Ahmed Khan M. M. Yovanovich

Journal of Thermophysics and Heat Transfer, Volume 22(3), Pages 352-359

Impact Factor: 0.647 | **Quartile:** 3 | **Citations:** 31
DOI: https://doi.org/10.2514/1.35621

Optimization of Pin-Fin Heat Sinks in Bypass Flow using Entropy Generation Minimization Method 2008

Waqar Ahmed Khan J. R. Culham M. M. Yovanovich

Journal of Electronic Packaging, Volume 130(3), Article Number 031010 (7 pages)

Impact Factor: 0.827 | **Quartile:** 2 | **Citations:** 28

DOI: 10.1115/1.2965209

Modeling of Cylinderical Pin-Fin Heat Sinks for Electronic Packaging 2008

Waqar Ahmed Khan J. Richard Culham M. Michael Yovanovich

IEEE Transactions on Components and Packaging Technologies, Volume 31, No. 3, Pages 536-545

Impact Factor: 0.968 | **Quartile:** 3 | **Citations:** 49

DOI: 10.1109/TCAPT.2008.2002554

Analytical Study of Heat Transfer from Elliptical Cylinder in Liquid Metals 2008

R. Ahmad Waqar Ahmed Khan

Journal of Thermophysics and Heat Transfer, Volume 22(3), Pages 522-527

Impact Factor: 0.647 | **Quartile:** 3 | **Citations:** 2

DOI: 10.2514/1.36093