Muhammad Umar Faroog

Professor

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About

Dr. Muhammad Umar Farooq is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Muhammad Umar Farooq has a PhD in Applied Mathematics. Dr. Muhammad Umar Farooq has published 31 research articles & conference papers having a citation count of 644, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Mathematics NUST, Islamabad , Pakistan	2005 - 2011
MSc in Mathematics BZU, Multan , Pakistan	2000 - 2002
BS in Mathematics Islamia University of Bahawalpur , Pakistan	1986 - 2000
Experience	
Professor College of Electrical & Mechanical Engineering	2022- Present
Associate Professor College of Electrical & Mechanical Engineering	2019 - 2022
Assistant Professor College of Electrical & Mechanical Engineering	2016 - 2019
Assistant Professor College of Electrical & Mechanical Engineering	2011 - 2016
Post Doc University of Science & Technology, USTC, China, University of Science & Technology, Hefei, Anhui, China	2016 - 2017
Lecturer Islamabad Model College for Boys , F-8/4 Sector, Islamabad, Pakistan	2003 - 2005

Research Articles

Conserved quantities of Euler-Lagrange system via complex Lagrangian	2023
Muhammad I mar Faraga Anum Nagagam C. Wafa Sah	

Muhammad Umar Farooq Anum Naseem C. Wafo Soh

Heliyon , Volume:9, Issue:6, Article Number:

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Anum Naseem Anum Shafiq Faiza Naseem Muhammad Umar Farooq

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DOI: https://doi.org/10.3390/en15196891

Epicyclic oscillations of test particles near marginally stable circular orbits around charged Kiselev black holes

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Dmitriy Ovchinnikov Muhammad Umar Farooq Ibrar Hussain Ahmadjon Abdujabbarov Bobomurat Ahmedov Zden?k Stuchlík Physical Review D, Volume 104, Article Number 063027

DOI: https://doi.org/10.1103/PhysRevD.104.063027	
Discrete Gradient Methods for Solving SIRI Epidemic Model Numerically While Preserving First Integrals	2020
Farrukh Shehzad Yousaf Habib Atia Rashid Muhammad Umar Farooq	
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Accretion on High Derivative Asymptotically Safe Black Holes	2020
Mubasher Jamil Ayyesha K. Ahmad Mubasher Jamil Ayyesha K. Ahmad M. Umar Farooq Rong-Jia Yang Chinese Physics C, Vol. 44, No. 6, Article Number 065102	
Impact Factor: 2.145 Quartile: 2 Citations: 14 DOI: 10.1088/1674-1137/44/6/065102	
First Integrals of Two-Dimensional Dynamical Systems via Complex Lagrangian Approach Muhammad Umar Farooq Chaudry Masood Khalique Fazal M. Mahomed Symmetry, Volume 11, Issue 10	2019
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Spherical accretion flows onto modified Schwarzschild black hole	2019
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Comparison of Noether Symmetries and First Integrals of Two-Dimensional Systems of Second Order Ordinary Differential Equations by Real and Complex Methods Muhammad Safdar Asghar Qadir Asghar Qadir Muhammad Umar Farooq Symmetry, Volume 11, Issue 9	2019
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Noether-Like Operators and First Integrals for Generalized Systems of Lane-Emden Equations Muhammad Umar Faroog	2019
Symmetry , Volume: 11 Issue: 2 Article Number: 162	
Impact Factor: 2.645 Quartile: 2 Citations: 4 DOI: 10.3390/sym11020162	
A Complex Lie-Symmetry Approach to Calculate First Integrals and Their Numerical Preservation Wajeeha Irshad Yousaf Habib Muhammad Umar Farooq Symmetry, Volume: 11 Issue: 1 Article Number: 11 Impact Factor: 2.645 Quartile: 2 Citations: 1 DOI: 10.3390/sym11010011	2019
Analytical investigation of third grade nanofluidic flow over a riga plate using Cattaneo-Christov model Anum Naseem Anum Shafiq Lifeng Zhao Muhammad Umar Farooq Results in Physics, NULL Impact Factor: 3.042 Quartile: 1 Citations: 63	2018
DOI: 10.1016/j.rinp.2018.01.013	
Reconstruction of f(T) and f(R) gravity according to (m,n)-type holographic dark energy Mubasher Jamil Davood Momeni Ratbay Myrzakulov Muhammad Umar Farooq Canadian Journal of Physics, Volume 91, Issue 9, Pages 703-708	2013
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Non-equilibrium thermodynamics of dark energy on the power-law entropy corrected apparent horizon	2011
Mubasher Jamil Muhammad Umar Farooq Canadian Journal of Physics, Volume 89, Pages 1251–1254	
Impact Factor: 0.857 Quartile: 3 Citations: 7 DOI: 10.1139/P11-126	

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Dynamics of interacting phantom and quitessence dark energies

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Thermodynamics of phantom energy in the presence of a Reissner-Nordstrom black hole	2011
Mubasher Jamil Ibrar Hussain Muhammad Umar Farooq	
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Two-dimensional Systems that Arise from the Noether Classification of Lagrangians on the Line	2011
Muhammad Umar Farooq Sajid Ali F.M. Mahomed	
Applied Mathematics and Computation, Volume: 217 Issue: 16 Pages: 6959-6973	
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Mathematical and Computational Applications, Volume: 15 Issue: 4 Pages: 585-600 Special Issue: SI	
Impact Factor: N/A Citations: 3	
DOI: doi.org/10.3390/mca15040585	
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dark energy in non-flat universe	
Muhammad Umar Farooq Mubasher Jamil Muneer Ahmad Rashid	
International Journal of Theoretical Physics, Volume 49, Issue 9, Pages 2278-2287	
Impact Factor: 0.670 Quartile: 3 Citations: 47	
DOI: 10.1007/s10773-010-0415-1	
Thermodynamics of interacting entropy-corrected holographic dark energy in a non-flat FRW universe	2010
Muhammad Umar Farooq Mubasher Jamil AHMAD SHEYKHI	
International Journal of Modern Physics D, Volume: 19 Issue: 11 Pages: 1831-1842	
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Interacting entropy-corrected holographic Chaplygin gas model	2010
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International Journal of Theoretical Physics, Volume: 49 Issue: 10 Pages: 2334-2347	
Impact Factor: 0.67 Quartile: 3 Citations: 15 DOI: 10.1007/s10773-010-0420-4	
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Phantom wormholes in (2+1)-dimensions	2010
Muhammad Umar Farooq Mubasher Jamil	
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