

Curriculum Vitae of Dr. Anoop Kumar

Personal Information

Assistant Professor

Cluster Innovation center
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Aug 2014 – Present

Name: **Anoop Kumar**

Address of Correspondence: Anoop Kumar, C/O Dr. Rajan Arora (Associate Professor)
Department of Applied Science and Engineering, IIT Roorkee, Saharanpur Campus, Saharanpur, U.P. – 247001, India.

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Specializations: Applied Mathematics, Shock Waves, Gas Dynamics, Similarity Solutions, Asymptotical Solutions.

Educational Qualification

Ph. D. (Applied Mathematics) Indian Institute of Technology (IIT), Roorkee, (Thesis Submitted) Uttarakhand, India.

M. Sc. (Applied Mathematics) Indian Institute of Technology (IIT), Roorkee, Uttarakhand, India,

B. Sc. (Physics, Chemistry and Mathematics) H.N.B. Garhwal Central University Srinagar, Uttarakhand, India.

Thesis title: Analysis of Shock Waves and Other Non-linear Evolution Equations.

Supervisor: Dr. Rajan Arora (Associate Professor)
Department of Applied Science and Engineering, IIT Roorkee.

- Qualified National Eligibility Test (N E T) for Lecturer-ship in Mathematics in April, 2010.
- Qualified Graduate Aptitude Test in Engineering (GATE) Fellowship in Mathematics from Ministry of Human Research Development (MHRD) in July, 2010, and SRF July, 2012 to July 2014.

Computer Skills: Knowledge of “LATEX” and Software package “MATHEMATICA”.

Papers Published in the International Journals:

- (1) R. Arora and A. kumar, Soliton Solution of GKDV, RLW, GEW and GRLW Equations by Sine-hyperbolic Function Method, *American Journal of Computational and Applied Mathematics*, vol. 1(1), pp. 1-4, 2011. (Scientific and Academic Publishing, p-ISSN: 2165-8935, e-ISSN: 2165-8943, DOI: 10.5923/j.ajcam.20110101.01).
- (2) Rajan Arora and Anoop Kumar, Soliton Solution for the BBM and MRLW Equations by Cosine-function Method, *Applied Mathematics*, vol. 1(2), pp. 59-61, 2011. (Scientific and Academic Publishing, p-ISSN: 2163-1409, e-ISSN: 2163-1425, DOI: 10.5923/j.am.20110102.09).
- (3) Rajan Arora, Anoop Kumar, Solution of the Drinfeld-Sokolov-Wilson (DSW) Equation by RDT Method, *Mathematical Science International Research Journal*. 2012, 1(1): 115-122. (International Multidisciplinary Research Foundation (IMRF), p-ISSN: 2278-8697, e-ISBN: 978-93-81583-55-5).
- (4) Rajan Arora, Anoop Kumar, Solution of the Coupled Drinfeld’s–Sokolov–Wilson (DSW) System by Homotopy Analysis Method, *Advanced Science, Engineering and Medicine* Vol. 5, pp. 1–7, 2013. doi:10.1166/asem.2013.1399.
- (5) Anoop Kumar, Rajan Arora, Solutions of the coupled system of Burgers’ equations and coupled Klein-Gordon equation by RDT Method, *International Journal of Advances in Applied Mathematics and Mechanics* Volume 1, Issue 2, pp. 103-115, (2013), ISSN: 2347-2529.
- (6) Anoop Kumar, Rajan arora, Solution of the Nagumo’s equation by reduced differential transform method (RDT) Method, *Mathematical Science International Research Journal*. 2014, 3(1): 339-342. (International Multidisciplinary Research Foundation (IMRF), p-ISSN: 2278-8697, e-ISBN: 978-93-84124-03-8).
- (7) Anoop Kumar, Rajan arora, Solution of the non-linear partial differential equations by RDT Method, *Mathematics in Engineering, Science and Aerospace*. 2014, Vol. 5, No. 2, pp. 105-112.

International Conference/ Workshop Attended:

(1) Rajan Arora, Anoop Kumar, Solution of Linear and Nonlinear PDEs by the He's Variational Iteration Method, *Recent Advances in Intelligent Control, Modelling and Computational Science*, ISBN: 978-960-474-319-3.

(2) National Board of higher Mathematics ATM Workshop on PDE and Mechanics, Jaypee University of Information Technology, Wagnaghat, (Himachal Pradesh) 03-15 June, 2013.

National Seminar:

National Seminar organized by Govt. Women Post Graduate College, Kandhla, Prabudh Nagar, U.P. (Affiliated to C.C.S. University, Meerut) held on December 24, 2011.

References:

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