

RESUME

Name : **DR. TANUKU POORNA KANTHA**

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Educational Qualifications:

| S.No | Degree | Branch / Specialization | Year of passing | Class obtained | University / institute |
|------|--------|-------------------------|-----------------|-----------------|------------------------|
| 1 | B.Sc. | MPC | 1997 | 1 st | Andhra University |
| 2 | M.Sc | Applied Mathematics | 1999 | 1 st | Andhra University |
| 3 | M.Phil | | 2005 | 2 nd | M.K. University |
| 4 | Ph.D | Fluid Mechanics | 2010 | | Andhra University |

Title of the Thesis: Secondary flow of two Immiscible liquids in a rotating annular pipe of cross section and steady Poiseuille MHD flow between two porous walls in rotating system and associated run up flow between the walls moving in opposite directions with equal velocity.

Name of the Ph.D guide: Prof.A.S.N.Murti and Prof.V.V.Ramana Rao

Teaching Experience :

| S.No | Position held | Name of the institution | From | To |
|------|-----------------|--------------------------------------|------------|------------|
| 1 | Junior Lecturer | Gayatri Junior College | 17-07-2000 | 1-11-2001 |
| 2 | Lecturer | GITAM College | 1-11-2001 | 31-03-2004 |
| 3 | Asst. Professor | S.V.P. College | 28-07-2004 | 7-11-2005 |
| 4 | Asst. Professor | GITAM | 8-11-2005 | 10-04-2017 |
| 5 | Asst.Professor | GVP College of Engineering for Women | 17-04-2017 | Till date |

Publications:

| S.No | NAME OF THE AUTHOR | TITLE OF THE PAPER | NAME OF THE JOURNAL | VOL/ISSUE/YEAR | PAGES |
|------|---|---|---|-------------------------|----------------------------|
| 1 | V.S.R.K.Sastry, A.S.N.Murti, S.Uma Devi, A. A. V.L. A.S.Achary lulu, T.Poorna Kantha | Radiation Effects on MHD mixed convection flow past a semi infinite vertical plate | Indian Journal of Fluids Dynamics | Vol-1, No-1, 2013 | pp.81-92 |
| 2 | V.S.R.K.Sastry,A.S.N.Murti, T.Poorna Kantha | The Effect of Heat Transfer on MHD Marangoni Boundary Layer Flow Past a Flat Plate in Nanofluid | International Journal of Engineering Mathematics, | vol. 2013, 2013 | Article ID 581507, 6 pages |
| 3 | P.K.Kameswaran,A.S.N.Murti, T.Poorna Kantha, D.RV.S.R.K.Sastry | Effects of chemical reaction double dispersion on heat and mass transfer in non darcy non Newtonian fluid over a vertical surface | Heat Transfer Research(SCI) | 43(4), 2012 | 363-382 |
| 4 | T.Poorna Kantha A.S.N.Murti, V. V.Ramana Rao | Secondary Flow of Two Immiscible liquids in a rotating annular pipe of circular cross section | International Journal of Applied Mathematics & Statistical Sciences ISSN 2319-3972 | Vol 1, Issue 2, 2012 | pp: 37-49 |

| | | | | | |
|----|---|---|--|---------------------------|------------------|
| 5 | A.S.N.Murti, P.K.Kameswaran, T.Poorna Kantha A. A. V.L. A.S.Achary lulu | Numerical Study on MHD Mixed convective flow with Dispersion and chemical reaction over a vertical plate in Non-Darcy porous medium | International Journal of Mathematical Archive. ISSN 2229-5046 | 3(2), 2012, | pp: 534-549 |
| 6 | A.S.N.Murti, P.K.Kameswaran, T.Poorna Kantha A. A. V.L. A.S.Achary lulu | Analytical studies on MHD flows with viscous dissipation and the boundary layer flow over a vertical plate | International Journal of Mathematics and Scientific Computing (IJMSC) ISSN 2231-5330 | Vol(1) No:2, 2011 | pp7-13 |
| 7 | P.K.Kameswaran,A. S.N.Murti, T.Poorna Kantha, Ramesh Kokkili gadda | Dispersion Chemical Reaction and radiation effects on Heat and Mass transfer in mixed convective flow considering Soret and Dufour effects | International Journal of Mathematical Archive. ISSN 2229-5046 | 3(1), 2201 ,2012, | pp: 85-98 |
| 8 | A.S.N.Murti, D.R.V.S.R.K.Sastry P.K.Kameswaran, T.Poorna Kantha | Effects of Mixed convection and double dispersion on semi infinite vertical plate in presence of radiation | World Academy of Science, Engineering and Technology | Issue 60, 2011 | pp: 1232-1239 |
| 9 | A.S.N.Murti, P.K.Kameswaran, D.R.V.S.R.K.Sastry T.Poorna Kantha | Mixed convection , double dispersion and chemical reaction effects on heat and mass transfer in non-Darcy flow over a vertical surface | Journal of ACTA CIENCIA INDICA. ISSN:0970-0455 | Vol. XXXVII M , No.2,2011 | pp. 385-394 |
| 10 | D.V.V.S.R.K.Sastry, A.S.N.Murti, P.K.Kameswaran, T.Poorna Kantha | Mixed convection effects on heat and mass transfer in a nonNewtonian fluid with chemicalreaction over a vertical plate | Theoretical and Applied Mechanics Letters Co-Published by American Institute of Physics. | 042007 ,2011 | |
| 11 | P.K.Kameswaran,A. S.N.Murti, T.Poorna Kantha, D.V.V.S.R.K.Sastry | Double dispersion, Chemical reaction, Radiation effects on heat and mass transfer in non-Darcy free convective flow over a vertical surface | International Journal of Applied Mathematics & Engineering Sciences. ISSN: 0973-5275 | Vol. 5, No.1, 2011 | pp. 95-106 |
| 12 | A.S.N.Murti, P.K.Kameswaran, T.Poorna Kantha | Radiation chemical reaction , double dispersion effects on heat and mass transfer in non-Newtonian fluids | International Journal of Engineering ISSN: 1985-2312 | Vol. 4, No.1, 2010 | pp.13-25 |

Papers Presented in Conferences

| S.No | NAME OF THE AUTHOR | TITLE OF THE PAPER | NAME OF THE CONFERENCE | PAGE NOs | YEAR |
|------|---|---|---|--|------------------|
| 1 | A.S.N.Murti, T.Poorna Kantha | Secondary flow of two Immiscible liquids in a rotating annular pipe of circular cross section | 51 st Congress of ISTAM Andhra University College of Engineering, Visakhapatnam | | December 2006 |
| 2 | P.K.Kameswaran, A.S.N.Murti, T.Poorna Kantha | Effect of Radiation, Chemical reaction and double dispersion on heat and mass transfer in non-Darcy free convective flow | ASME 2009 International Mechanical Engineering Congress & Exposition IMECE 2009 November 13- 19,Lake Buena Vista, Florida, USA. | Paper No. IMECE 2009-12734, pp. 681-690, 2009. ISBN: 978-07918- 4382-6 | November 2009 |
| 3 | A.S.N.Murti, P.K.Kameswaran, D.R.V.S.R.K.Sastry T.Poorna Kantha | Mixed Convection Effects on Non Darcy Fluid Flows Over A Vertical Surface | 55 th Congress of ISTAM National Institute of technology, Hamipur. | pp.71-78 | December 2010 |
| 4 | A.S.N.Murti, D.R.V.S.R.K.Sastry P.K.Kameswaran, T.Poorna Kantha | Radiation and Double Dispersion Effects in a Mixed ConvectiveNonNewtonian Fluid over a Vertical Plate | National Conference on Applications of Mathematics in Engineering Sciences (NCAMES-2011) June 29 th - 30 th , 2011 | pp.42-46 ISBN:978-81 909853-0-7 | June 2011 |
| 5 | A.S.N.Murti, P.K.Kameswaran, T.Poorna Kantha, Ramesh Kokiiligadda | Effects of Chemical reaction and Radiation on Heat and Mass Transfer in Mixed Convective Flow considering Soret and Dufour effects over a Vertical surface. | National Conference on Applications of Mathematics in Engineering Sciences (NCAMES-2011) June 29 th -30 th , 2011 | pp.24-27tg ISBN:978-81 909853-0-7 | June 2011 |
| 6 | T.Poorna Kantha, | Flow of Two Immiscible liquids in annular region | International Conference on Recent Advances in Mathematical Sciences and Applications(RAMSA 17), 19 th -22 nd December 2017, GVP College of Engineering, Visakhapatnam | | December 2017 |
| 7 | T.Poorna Kantha, | Two Immiscible liquids flow in an annular region | National Conference on Recent Advances and Applications in Mathematics- NCRAAM- 2019 | | February 2019 |

Participation in Workshops/ Seminars

| S.No | Workshop/Short term course | Topic | Institute | Dates |
|------|---|---|---|--|
| 1 | Short term Course | Numerical Methods in Fluids, Acoustics and Electromagnetics, NMFAEM | Department of Marine Engineering, College of Engineering, Andhra University, Visakhapatnam | 17 th -21 st July, 2006 |
| 2 | Quality Improvement Programme by NITTTR | Staff Development programme on Industrial Design and Delivery System | GITAM Institute of Technology, GITAM University | 15 th – 20 th December, 2008 |
| 3 | Two day National Workshop | Mathematical Techniques and their Applications to Engineering and Physical Problems | Department of Science and Humanities, MVGR College of Engineering, Vizianagaram | 23 rd - 24 th May, 2008 |
| 4 | One day National Workshop | New Paradigms of Mathematical Modeling and its Applications to Engineering & Technology | Department of Basic Sciences & Humanities and Social Sciences, JNTUK University College of Engineering , Vizianagaram | 27 th March, 2014 |
| 5 | Workshop | Introduction to Mathematical Theory of Complex Fluids | NIT, Kurukshetra | 17 th – 22 nd November, 2017 |
| 6 | NPTEL | Calculus of Several real Variables | IIT Kharagpur | Aug-Oct, 2019 |
| 7 | Coursera | Matrix Algebra for Engineers | The Hong Kong University of Science and Technology | May, 2020 |
| 8 | One Day Faculty Development Programme | Beauty and Ingenuity of Basic Concepts in Algebra | Government College, Rajahmundry, Andhra Pradesh | June 04 th , 2020 |
| 9 | One Week International Online Faculty Development Programme | Statistical Trends and Practices in Science and Technology | Aditya Institute of Technology and Management, Tekkali | 4 th to 8 th July, 2020 |
| 10 | One Week International Online Faculty Development Programme | Applications of Mathematics in Science & Engineering | Vishnu Institute of Technology, Bhimavaram | 7 th to 11 th July, 2020 |
| 11 | One Day National Webinar | Mathematics and it's Applications & Ganitha Dasavadhanam | Acharya Nagarjuna University | 22 nd December, 2020 |

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