

JOURNAL PUBLICATIONS

- [1] **V.M. Job** and S.R. Gunakala. 2021. "Numerical study on mixed convective flow of water-based magnetite nanofluid through a wavy channel containing porous blocks under the effect of an oscillating magnetic field." ZAMM-Journal of Applied Mathematics and Mechanics. e202000254.
- [2] S.R. Gunakala, **V.M. Job**, S. Sakhamuri, P. Murthy, and B.V. Chowdary. 2021. "Numerical Study of Blood Perfusion and Nanoparticle Transport in Prostate and Muscle Tissues during Intravenous Magnetic Hyperthermia". Alexandria Engineering Journal 60(1): 859-876.
- [3] Sreenivasulu P., S.R. Gunakala, Poornima T., Bhaskar Reddy N. and **V.M. Job**. 2020. "Aligned Magnetic Field and Navier Slip Effects on Free Convective Radiative Flow of Nanofluids with Imbedded Carbon Nanotubes: A Lie Group Analysis." SN Applied Sciences 2: 1283.
- [4] **Job, V.M.** and S.R. Gunakala. 2019. "Unsteady Pulsatile Hydromagnetic Counter-Current Flows of Cu-Water and CuO-Water Nanofluids through Two Elastic Coaxial Pipes with Porous Blocks." International Journal of Applied and Computational Mathematics 5(1): 4.
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- [6] **Job, V.M.** and S.R. Gunakala. 2018. "Unsteady Hydromagnetic Mixed Convection Nanofluid Flows through an L-Shaped Channel with a Porous Inner Layer and Heat-Generating Components." International Journal of Heat and Mass Transfer 120: 970-986.
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- [12] **Job, V.M.** and S.R. Gunakala. 2015. "Finite Element Analysis of Unsteady Radiative MHD Natural Convection Couette Flow Between Permeable Plates with Viscous and Joule Dissipation." *International Journal of Pure and Applied Mathematics* 99(2): 123-143.
- [13] Balkissoon, S., S.R. Gunakala, D. Comissiong, **V.M. Job**, 2015. "The comparative analysis of the two dimensional Laplace equation using the Galerkin finite element method with the exact solution for various domains with triangular elemental meshing." *International Journal of Applied Mathenatical Research* 4(1): 193-204.
- [14] **Job V.M.** and S.R. Gunakala, 2014. "A Comparative Study of the Finite Element and Finite Difference Methods for an Unsteady Fluid Flow Problem with Free Convection and Chemical Reaction" *International J. of Math. Sci. & Engg. Appls.* 8(5):205-216.
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- [16] **Job, V.M.** and S.R. Gunakala. 2013. "Unsteady MHD Free Convection Couette Flow between Two Vertical Permeable Plates in the Presence of Thermal Radiation Using Galerkin's Finite Element Method" *International Journal of Mechanical Engineering* 2(5): 99-110.

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BOOK CHAPTERS

- [1] Hosein, P., **V.M. Job**, and A. Sankar-Ramkarran. “On the Sizing of Security Personnel Staff while accounting for Overtime Pay.” In: *Advances in Optimization and Decision Science for Society, Services and Enterprises – ODS*, Genoa, Italy, September 4-7, 2019, Springer Nature Switzerland AG, 233-243, 2019.
- [2] **Job, V.M.**, S.R. Gunakala, B. Rushi Kumar, R. Sivaraj. “Effects of Heat-Generating Component Size and Porous Layer Thickness on MHD Mixed Convection Flow of Ag-Water Nanofluid through an L-Shaped Channel.” In: *Applications of Fluid Dynamics- Proceedings of ICAFD 2016, Lecture Notes in Mechanical Engineering*, Springer Nature, 109-126, 2018.

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- [1] Maraika Alexander, Sreedhara Rao Gunakala, and **Victor M. Job**. Steady MHD Flow and Heat Transfer Between a Solid Rotating and Stationary Permeable Disk (2020). Online presentation at the 86th Annual Conference of the Indian Mathematical Society Conference on Emerging Trends in Engineering and Technology, VIT Vellore, India.
- [2] Actively participated in the International E-Colloquium on Recent Advancements in Fluid Flow and Heat Transfer. IIT Roorkee, India (2020).
- [3] Actively participated in the online seminar on “Enhancing Entrepreneurship Skills using Mathematical Mind.” Manipal University Jaipur, India. (2020).

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- [5] P. Sreenivasulu, Sreedhara Rao Gunakala, T. Poornima, N. Bhaskar Reddy, and **Victor M. Job**. Combined Effects of Inclined Magnetic Field and Navier Slip on Free Convective and Radiative Flow of Nanofluids with Imbedded Carbon Nanotubes: A Lie Group Analysis (2020). Presented at International Conference on Emerging Trends in Engineering and Technology, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [6] Judith Balkissoon, Sreedhara Rao Gunakala, and **Victor M. Job**. Unsteady MHD Poiseuille Flow through a Porous Channel under an Oscillating Pressure Gradient and Uniform Suction and Injection (2020). Presented at International Conference on Emerging Trends in Engineering and Technology, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [7] Jennilee Veronique, Sreedhara Rao Gunakala, and **Victor M. Job**. Unsteady Hydromagnetic Couette Flow under an Oscillating Pressure Gradient and Uniform Suction and Injection (2020). Presented at International Conference on Emerging Trends in Engineering and Technology, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [8] Patrick Hosein, **Victor Job**, and Alana Sankar-Ramkarran. On the Sizing of Security Personnel Staff While Accounting for Overtime Pay (2019). Presented at ODS 2019 International Conference on Optimization and Decision Science, University of Genova, Italy.
- [9] **Victor M. Job**, Alana Sankar-Ramkarran, and Sreedhara Rao Gunakala. A Mathematical Model of Nanofluid Flows under the Influence of an External Magnetic Field, Thermal Radiation and Peristalsis (2019). Presented at Science and Technology Week 2019, The University of the West Indies, St. Augustine, Trinidad and Tobago.

- [10] Patrick Hosein, **Victor M. Job**, Alana Sankar-Ramkarran, and Trisha Lawrence. A Holistic Approach to the Optimal Staffing and Scheduling of Security Personnel (2019). Poster presentation at Science and Technology Week 2019, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [11] **Victor M. Job** and Sreedhara Rao Gunakala. Fe_3O_4 -Water Nanofluid Flow and Convective Heat Transfer Under the Influence of an Alternating Magnetic Field (2018). Presented at the Faculty of Science and Technology Research Symposium 2018, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [12] **Victor M. Job** and Sreedhara Rao Gunakala. Convective Pulsatile MHD Two-Phase Nanofluid Flows through Two Elastic Coaxial Pipes (2018). Presented at Department of Mathematics and Statistics Seminar Series 2018, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [13] **Victor M. Job** and S. Rao Gunakala. Single-Phase and Two-Phase Approaches for Convective Nanofluid Flows (2018). Presented at Department of Mathematics and Statistics Seminar Series 2018, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [14] **Victor M. Job** and Sreedhara Rao Gunakala. Convective Heat Transfer and Its Applications (2017). Presented at Department of Mathematics and Statistics Seminar Series 2017, The University of the West Indies, St. Augustine, Trinidad and Tobago.
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- [16] **Victor M. Job** and Sreedhara Rao Gunakala. MHD Mixed Convective Flows of Nanofluids through Grooved Channels with Internal Heat-Generating Cylinders (2017). Presented at FST Annual Research Symposium 2017, The University of the West Indies, St. Augustine, Trinidad and Tobago.
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- [20] **Victor M. Job** and Sreedhara Rao Gunakala. Transient Hydromagnetic Natural Convection within a Nanofluid-Filled Wavy Trapezoidal Enclosure with Viscous and Joule Dissipation (2015). Presented at Cariscience Conference and Annual General Meeting, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [21] **Victor M. Job** and Sreedhara Rao Gunakala. Unsteady MHD Free Convection Nanofluid Flows Within a Wavy Trapezoidal Enclosure (2015). Presented at the 5th Annual Life Science Research Symposium, The University of the West Indies, St. Augustine, Trinidad and Tobago.
- [22] **Victor M. Job** and Sreedhara Rao Gunakala. Galerkin's Finite Element Method for 2D Boundary-Value Problems (2014). Presented at Symposium on Mathematics and its Applications, The University of the West Indies, St. Augustine, Trinidad and Tobago.
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- [24] Sreedhara Rao Gunakala, **Victor M. Job**. Finite Element Analysis of Unsteady Radiative MHD Natural Convection Couette Flow between Permeable Plates with Viscous and Joule Dissipation (2014). Poster presentation at Commonwealth Science Conference, Bangalore, India.
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