Nanofluid Technologies and Thermal Convection Techniques

Ramesh Chand (Government Arya Degree College, India)

Description:

Emerging developments in nanofluid research have enhanced its range of various industrial applications. When implemented effectively, the use of such fluids offer numerous benefits, particularly in cooling processes.

Nanofluid Technologies and Thermal Convection Techniques is a pivotal source of information for theoretical perspectives and investigations on the thermal instability of nanofluids and its various effects. Highlights relevant studies relating to stationary, double diffusive, and oscillatory convection.

Readers:

This book is ideally designed for professionals, researchers, and practitioners seeking material on the industrial usage of nanofluid technologies.


Topics Covered:

- Double Diffusive Convection
- Internal Heat Sources
- Magnetic Field Influences
- Maxwellian Visco-Elastic Fluids
- Oscillatory Convection
- Rotation Effects
- Stationary Convection
- Variable Gravity Effects

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Ramesh Chand received his M.Sc. degree (Applied Mathematics) in 1995 and Ph.D. (Physical Sciences) in the year 2001 from Himachal Pradesh University Shimla, India. Presently he is working as Assistant Professor in Department of Mathematics at Govt. Arya Degree College Nurpur, HP, India. His research area is Hydrodynamic and Hydromagnetic Stability, Fluid dynamics, Heat and Mass Transfer, Flows in Porous Media, Instability in Newtonian and Non-Newtonian fluid and Nanofluid. He has guided 01 Ph.D Research Scholar and 11 M.Phil Research Scholars. He has published 65 papers in various national and international research journals. He has been conferred with ‘Bharat Jyoti Award’ for Meritorious Services for Outstanding Performance and Remarkable Role in the field of Education by India International Friendship Society, New Delhi in 2013 and ‘Best Citizen of India’ Award by Best Citizen Publishing House New Delhi in 2014. His short biography is published in “Marquis Who’s Who in the World 2014” (31st Edition).