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Titolo	Frontier in nanoscale flows : fractional calculus and analytical methods // guest editors, Dr. Ji-Huan He and Dr. Hong-Yan Liu
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Collana	International Journal of Numerical Methods for Heat and Fluid Flow, , 0961-5539 ; ; Volume 24, Issue 6
Disciplina	515.83
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Editorial advisory board; Editorial; Fractional calculus for nanoscale flow and heat transfer; Analytical solutions to a fractional generalized two phase Lamé-Clapeyron-Stefan problem; Thermal and hydrodynamic performance analysis of charged jet in electrospinning; Numerical solutions of singularly perturbed convection-diffusion problems; Refined gray-encoded evolution algorithm for parameter optimization in convection - diffusion equations; Simulation of co-rotating vortices based on compressible vortex method Finite element analysis on hot deformation behavior of TiC-particle-reinforced titanium matrix composite Numerical simulation of nanoparticles diffusion and coagulation in a twin-jet via a TEMOM method; Highly aligned electrospun nanofibers/nanoporous fibers; Application of the homotopy perturbation method to an inverse heat problem; Study of gaseous velocity slip in nano-channel using molecular dynamics simulation; Variational iteration method with He's polynomials for MHD Falkner-Skan flow over permeable wall based on Lie symmetry method Multi-scale analysis of streamflow using the Hilbert-Huang Transform Particle properties for suspension plasma spray
Sommario/riassunto	This ebook covers the basic properties of nanoscale flows, and various analytical and numerical methods for nanoscale flows and environmental flows. This ebook is a good reference not only for

audience of the journal, but also for various communities in  
mathematics, nanotechnology and environmental science.

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