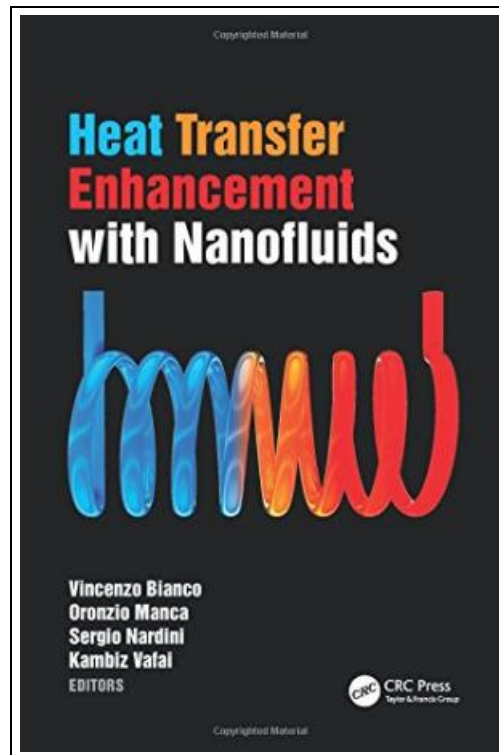


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HEAT TRANSFER ENHANCEMENT WITH NANOFLUIDS (HARDBACK)



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Apple Academic Press Inc., Canada, 2015. Hardback. Book Condition: New. 231 x 160 mm. Language: English . Brand New Book. Nanofluids are gaining the attention of scientists and researchers around the world. This new category of heat transfer medium improves the thermal conductivity of fluid by suspending small solid particles within it and offers the possibility of increased heat transfer in a variety of applications. Bringing together expert contributions from across the globe, Heat Transfer Enhancement with Nanofluids presents a complete understanding of the application of nanofluids in a range of fields and explains the main techniques used in the analysis of nanofluids flow and heat transfer. Providing a rigorous framework to help readers develop devices employing nanofluids, the book addresses basic topics that include the analysis and measurements of thermophysical properties, convection, and heat exchanger performance. It explores the issues of convective instabilities, nanofluids in porous media, and entropy generation in nanofluids. The book also contains the latest advancements, innovations, methodologies, and research on the subject. Presented in 16 chapters, the text: * Discusses the possible mechanisms of thermal conduction enhancement * Reviews the results of a theoretical analysis determining the anomalous enhancement of heat transfer in nanofluid flow * Assesses different approaches modeling the thermal conductivity enhancement of nanofluids * Focuses on experimental methodologies used to determine the thermophysical properties of nanofluids * Analyzes forced convection heat transfer in nanofluids in both laminar and turbulent convection * Highlights the application of nanofluids in heat exchangers and microchannels * Discusses the utilization of nanofluids in porous media * Introduces the boiling of nanofluids * Treats pool and flow boiling by analyzing the effect of nanoparticles on these complex phenomena * Indicates future research directions to further develop this area of knowledge, and more Intended as a reference for researchers...



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