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ADVANCES IN HEAT TRANSFER, VOLUME 18 Heat Transfer from Tubes in Crossflow A. hJKAUSKAS Academy of Sciences of the Lithuanian SSR, MTP-I Vilnius 232600, USSR I. Introduction The power generation field, the chemical industry, and other technology-based industries increasingly employ heat exchangers involving tubes in crossflow.

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Advances in Heat Transfer - Advances in Heat Transfer

The average treatise on heat transfer dismisses free convection in a single chapter. It is, nevertheless, potentially as large a subject as forced convection, and has developed rapidly within the last decade. The present review acknowledges this situation by confining its attention to one aspect only, that of free convection on a vertical surface.

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ADVANCES IN HEAT TRANSFER VOL. 42 Characterization Methods of High-Intensity Focused Ultrasound-Induced Thermal Field RUPAK K. BANERJEE^{1,2,*} and SUBHASHISH DASGUPTA¹
¹Department of Mechanical Engineering, University of Cincinnati, Cincinnati, OH 45221 ²Department of Biomedical Engineering, University of Cincinnati, Cincinnati, OH 45221 I. Introduction High-intensity focused ultrasound (HIFU) ...

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The reasons beyond these conflicts are reviewed. In addition, this paper describes flow and heat transfer in porous media as a well-modeled passive enhancement method. It is found that there are very few works which dealt with heat transfer enhancements using systems supported with flexible/flexible-complex seals.

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use of heat-transfer fluids that can act as thermal storage media and that allow operating temperatures around 425°C combined with lower limits around 0°C . This paper presents an outline of our latest approach toward the development of such thermal storage fluids. 1. Objectives The advanced technology development discussed in this

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Daniel W. Mackowski - Auburn University

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these challenging goals [1]. These future nuclear power systems will require advances in materials, reactor physics as well as heat transfer to realize their full potential. In this paper, a summary of these advanced nuclear power systems is presented along with a short synopsis of the important heat transfer issues.

ADVANCED NUCLEAR ENERGY SYSTEMS: HEAT TRANSFER ISSUES and

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Typical mass transfer applications include drying and removal of small surface particulates. Abrasion and heat transfer by impingement are also studied as side effects of vertical/short take-off and landing jet devices, for example in the case of direct lift propulsion systems in vertical/short take-off and landing aircraft. Advances in Heat ...

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