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this book starts with an overview of noncircular duct heat transfer in a wide range of engineering applications from automobile radiators to nuclear power plants.

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results may be used for practical applications. The chapters give detailed technical material that will be useful to engineers and scientists who work in the field of multiphase flow and heat transfer. The authors of all chapters are members of the CMR at Rensselaer, a research centre

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specializing in the state-of-the-art in multiphase science.

Modern Developments in Heat Transfer provides information pertinent to heat transfer investigation, including convective heat transfer, radiation heat transfer,

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as well as heat and mass transfer. This book examines the aspects and properties of high temperature heat transfer. Organized into 14 chapters, this book starts with an overview of noncircular duct heat transfer in a wide range of engineering applications from automobile

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radiators to nuclear power plants.

This text then examines the differences between circular and noncircular duct flows. Other chapters describe energy transport by radiation wherein photons, as energy carriers, are released from molecules of the radiating body and travel on

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straight lines until they are scattered or absorbed by other atoms or molecules. This book discusses as well the process of evaporation, which results in the conversion of a liquid into a vapor. The final chapter deals with plasma dynamics and its features. Physicists, chemists,

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mathematicians, and engineers will find this book extremely useful.

Advances in Heat Transfer

Completely updated, this graduate text describes the current state of boiling heat transfer and two-phase

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Industry relies heavily on the combustion process. The already high demand for energy, primarily from

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and Safety Assessment presents the
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the modeling of Severe Accident Phenomena Using CFD, Model Development for Two-phase Flows, and Applications for Sodium and Molten Salt Reactor Designs. Editors Joshi and Nayak have an invaluable wealth of experience that enables them to comment on the

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development of CFD models, the technologies currently in practice, and the future of CFD in nuclear reactors. Readers will find a thematic discussion on each aspect of CFD applications for the design and safety assessment of Gen II to Gen IV reactor concepts that will help them develop

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This monograph is focused mostly on the exposition of analytical methods for the solution of problems of strong

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phase change. A new theoretical model is proved useful in describing, with acceptable accuracy, problems of strong evaporation and condensation. The book is the first to treat the problem of asymmetry for evaporation/condensation. A semi-empirical model for the process is

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Development of proposed for purposes of practical calculation of the process of strong evaporation. The “ limiting schemes ” of the vapor bubble growth are analyzed. The thermo-hydrodynamic problem of evaporating meniscus of a thin liquid film on a heated surface is

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considered. A theoretical analysis of the problem of evaporation of a drop levitating over a vapor cushion is performed. The problem of vapor condensation upon a transversal flow around a horizontal cylinder is considered. The second edition is extended by (i) the conjugate

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“strong evaporation - heat conduction” problem, (ii) the influence of accommodation coefficients on intensive processes of evaporation and condensation, (iii) the problem of supersonic condensation. This book is the first to present a comprehensive theoretical

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Development of boiling problems: nucleate boiling, superfluid helium phase transition, similarity between pseudo-boiling and subcritical pressure nucleate boiling. The target audience primarily comprises research experts in the field of thermodynamics and fluid dynamics,

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but the book may also be beneficial for graduate students.

Deposition of amorphous silica (SiO_2) and calcium oxalate (CaOx) on the calandria tubes of juice evaporators cause serious processing problems in Australian cane sugar mills. The

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Removal of these deposits by mechanical and chemical means is a time-consuming and costly experience. The cost of downtime and chemical cleaning can be several million dollars per year for the Australian sugar industry. The interactions between CaOx and SiO_2

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have not been investigated previously because conventional studies only address fouling by individual components. The present work evaluates their interactions using two experimental approaches: batch tests for assessing kinetic and thermodynamic behaviour, and

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fouling-loop experiments and for examining composite fouling behaviour under different operating conditions. These two approaches were employed both in the absence and in the presence of sugar to elucidate the effect of sugar on composite fouling mechanisms and

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to determine the controlling species responsible for composite fouling.

The combined information obtained from both the batch and fouling-loop tests in this study offer a unique insight into the mechanisms of composite fouling of CaOx and SiO_2 .

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