Process Heat Transfer Hewitt

Process Heat TransferProcess Heat TransferAnnular Two-Phase FlowHandbook of Phase ChangePost-Dryout Heat TransferConvective Flow BoilingNuclear SafetyFifth UK National Heat Transfer ConferenceHeat Transfer 1994Modelling and Experimentation in Two-Phase FlowThe Chemical EngineerHeat Transfer 1994International Journal of Fluid Mechanics ResearchTwo-phase Flow and Heat TransferHandbook of Multiphase SystemsEncyclopedia of Fluid Mechanics: Gasliquid flowsHeat ExchangersThermohydraulics of Two-phase Systems for Industrial Design and Nuclear EngineeringTwo-phase Fluid FllowTwo-phase Flow and Heat Transfer G. F. Hewitt G F Hewitt Geoffrey Hewitt S.G. Kandlikar G. F. Hewitt John C. Chen UK National Heat Transfer Conference (5, 1997, London) G. F. Hewitt Volfango Bertola Geoffrey Frederick Hewitt D. Butterworth Gad Hetsroni J. Taborek J. M. Delhaye United Kingdom Atomic Energy Authority. Research Group Process Heat Transfer Process Heat Transfer Annular Two-Phase Flow Handbook of Phase Change Post-Dryout Heat Transfer Convective Flow Boiling Nuclear Safety Fifth UK National Heat Transfer Conference Heat Transfer 1994 Modelling and Experimentation in Two-Phase Flow The Chemical Engineer Heat Transfer 1994 International Journal of Fluid Mechanics Research Two-phase Flow and Heat Transfer Handbook of Multiphase Systems Encyclopedia of Fluid Mechanics: Gasliquid flows Heat Exchangers Thermohydraulics of Two-phase Systems for Industrial Design and Nuclear Engineering Two-phase Fluid Fllow Two-phase Flow and Heat Transfer G. F. Hewitt G F Hewitt Geoffrey Hewitt S.G. Kandlikar G. F. Hewitt John C. Chen UK National Heat Transfer Conference (5, 1997, London) G. F. Hewitt Volfango Bertola Geoffrey Frederick Hewitt D. Butterworth Gad Hetsroni J. Taborek J. M. Delhaye United Kingdom Atomic Energy Authority. Research Group

presents comprehensive coverage of both classical and new topics on the subject classical aspects discussed include shell and tube heat exchangers and condensers new topics covered include process intergration heat exchanger selection and ohmic heating

describes the fundamentals of heat transfer and its applications in process engineering includes approximately 600 figures and 50 tables provides both worked examples and problems at the end of each chapter presented in modern nomenclature and units with extensive references and tabulated data process

heat transfer presents comprehensive coverage of both classical and new topics on the subject classical aspects discussed include shell and tube heat exchangers double pipe exchangers reboilers and condensers new topics covered include process integration heat exchanger selection heat transfer associated with thermodynamic cycles and ohmic heating the book includes both worked examples and problems at the end of each chapter extensive sections on the fundamental principles of heat transfer and fluid flow in addition to a wealth of material on applied techniques and problems make process heat transfer an invaluable text and reference for students and professionals in mechanical engineering chemical engineering and applied heat transfer

annular two phase flow presents the wide range of industrial applications of annular two phase flow regimes this book discusses the fluid dynamics and heat transfer aspects of the flow pattern organized into 12 chapters this book begins with an overview of the classification of the various types of interface distribution observed in practice this text then examines the various regimes of two phase flow with emphasis on the regions of occurrence of the annular flow regime other chapters consider the single momentum and energy balances which illustrate the differences and analogies between single and two phase flows this book discusses as well the simple modes for annular flow with consideration to the calculation of the profile of shear stress in the liquid film the final chapter deals with the techniques that are developed for the measurement of flow pattern entrainment and film thickness this book is a valuable resource for chemical engineers

provides a comprehensive coverage of the basic phenomena it contains twenty five chapters which cover different aspects of boiling and condensation first the specific topic or phenomenon is described followed by a brief survey of previous work a phenomenological model based on current understanding and finally a set of recommended design equa

the study of post dryout heat transfer has generated great interest because of its importance in determining maximum clad temperature in nuclear reactor loss of coolant accidents locas an associated phenomenon the deterioration of heat transfer in boiling is significant to other industrial sectors this book provides comprehensive coverage of post dryout heat transfer discussing such essential topics as post dryout heat transfer in dispersed flow interpretation and use of transient data in surface rewetting by reinstatement of flow or by reducing heat flux rod bundles two phase flow occurrences in the post dryout region various methods for predicting inverted annular flow and new experiments for measuring thermodynamic nonequilibrium with probes in the channel the book also presents

a basis for independent safety assessment of nuclear reactors and chemical plant systems where post dryout heat transfer may occur post dryout heat transfer will be a useful reference for researchers and professionals in the nuclear and chemical production industries

this book comprises selected papers from the first international conference on convective flow boiling the purpose of the conference is to examine state of science and recent developments in technology of flow boiling i e boiling systems which are affected by convective flows

this is an up to date review of recent advances in the study of two phase flows with focus on gas liquid flows liquid liquid flows and particle transport in turbulent flows the book is divided into several chapters which after introducing basic concepts lead the reader through a more complex treatment of the subjects the reader will find an extensive review of both the older and the more recent literature with abundance of formulas correlations graphs and tables a comprehensive though non exhaustive list of bibliographic references is provided at the end of each chapter the volume is especially indicated for researchers who would like to carry out experimental theoretical or computational work on two phase flows as well as for professionals who wish to learn more about this topic

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