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this edition ensures the legacy of the original 1950 classic process heat transfer by donald q kern that by many is held to be the gold standard this second edition book is divided into three parts fundamental principles heat exchangers and other heat transfer equipment considerations part i

provides a series of chapters concerned with introductory topics that are required when solving heat transfer problems this part of the book deals with topics such as steady state heat conduction unsteady state conduction forced convection free convection and radiation part ii is considered by the authors to be the meat of the book and the primary reason for undertaking this project other than minor updates part ii remains relatively unchanged from the first edition notably it includes kern s original design methodology for double pipe shell and tube and extended surface heat exchangers part ii also includes boiling and condensation boilers cooling towers and quenchers as well as newly designed open ended problems part iii of the book examines other related topics of interest including refrigeration and cryogenics batch and unsteady state processes health safety and the accompanying topic of risk in addition this part also examines the impact of entropy calculations on exchanger design a 36 page appendix includes 12 tables of properties layouts and design factors what is new in the 2nd edition changes that are addressed in the 2nd edition so that kern s original work continues to remain relevant in 21st century process engineering include updated heat exchanger design increased number of illustrative examples energy conservation entropy considerations environmental considerations health safety risk assessment refrigeration and cryogenics

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the american west faces many challenges but none is more important than the challenge of managing its water this book examines the role that water transfers can play in allocating the region's scarce water resources it focuses on the variety of third parties including native americans hispanic communities rural communities and the environment that can sometimes be harmed when water is moved the committee presents recommendations to guide states tribes and federal agencies toward better regulation seven in depth case studies are presented nevada's carson truckee basin the colorado front range northern new mexico washington's yakima river basin central arizona and the central and imperial valleys in california water transfers in the west presents background and current information on factors that have encouraged water transfers typical types of transfers and their potential negative effects the book highlights the benefits that water transfers can bring but notes the need for more third party representation in the processes used to evaluate planned transfers

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