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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

a number of optimization problems of the mechanics of space flight and the motion of walking robots and manipulators and of quantum physics eco momics and biology have an irregular structure classical variational procedures do not formally make it possible to find optimal controls that as we explain have an impulse character this and other well known facts lead to the necessity for constructing dynamical models using the concept of a generalized function schwartz distribution the problem of the systematization of such models is very important in particular the problem of the construction of the general form of linear and nonlinear operator equations in distributions is timely another problem is related to the proper determination of solutions of equations that have nonlinear operations over generalized functions in their description it is well known that the value of a distribution at a point has no meaning as a result the problem to construct the concept of stability for generalized processes arises finally optimization problems for dynamic systems in distributions need finding optimality conditions this book contains results that we have obtained in the above mentioned directions the aim of the book is to provide for electrical and mechanical engineers or mathematicians working in applications a general and systematic treatment of dynamic systems based on up to date mathematical methods and to demonstrate the power of these methods in solving dynamics of systems and applied control problems

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