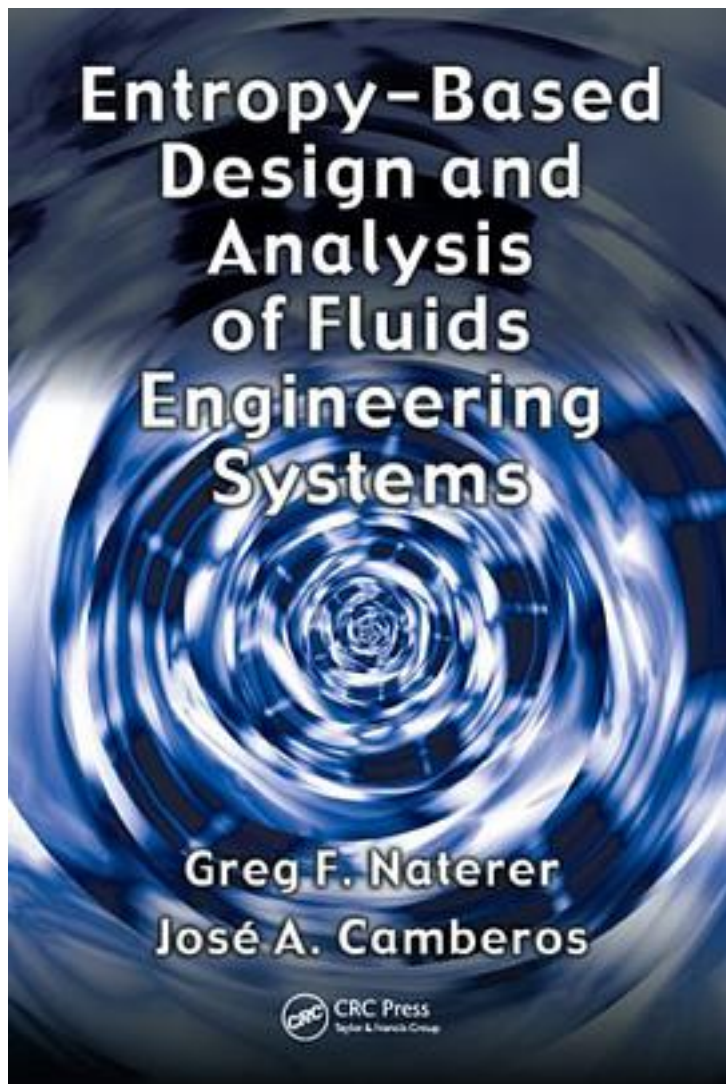


Entropy Based Design and Analysis of Fluids Engineering Systems



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Entropy is key to performance in engineering technologies. Entropy-based design is an emerging new methodology that incorporates the Second Law with computational fluid dynamics and measurement techniques. This book provides an overview of this design tool and its applications in such areas as microfluidics and microdevices. It develops computational and experimental methods for finding regions of high entropy production rates. Containing extensive end-of-chapter references, the text also provides comprehensive coverage of laser-based methods, numerical methods in CFD, and entropy transport equations, as well as the Second Law in microsystems, thermofluid systems, and turbulent flows.

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