

# Thermal Hydraulics for Space Power, Propulsion, and Thermal Management System Design (Progress in Astronautics and Aeronautics)

William J. Krotiuk



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Addressing the application of low-gravity fluid-thermal control systems to advanced space-based systems and designs, this volume treats design problems associated with current space programs that employ advanced fluid-thermal systems. It brings together all the technical knowledge necessary to design advanced fluid-thermal space systems. The text summarizes low-gravity fluid-thermal behavior, describes past and planned experimental activities, surveys existing thermal-hydraulic computer codes, and underscores areas that require further technical understanding. Engineers, designers, and researchers will be able to determine the status and limitations of the current knowledge of low-gravity fluid-thermal behavior and identify areas of future research. Educators will find the system descriptions useful in identifying areas for educational emphasis and the technical discussions helpful in describing current analytical methods and theories.

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