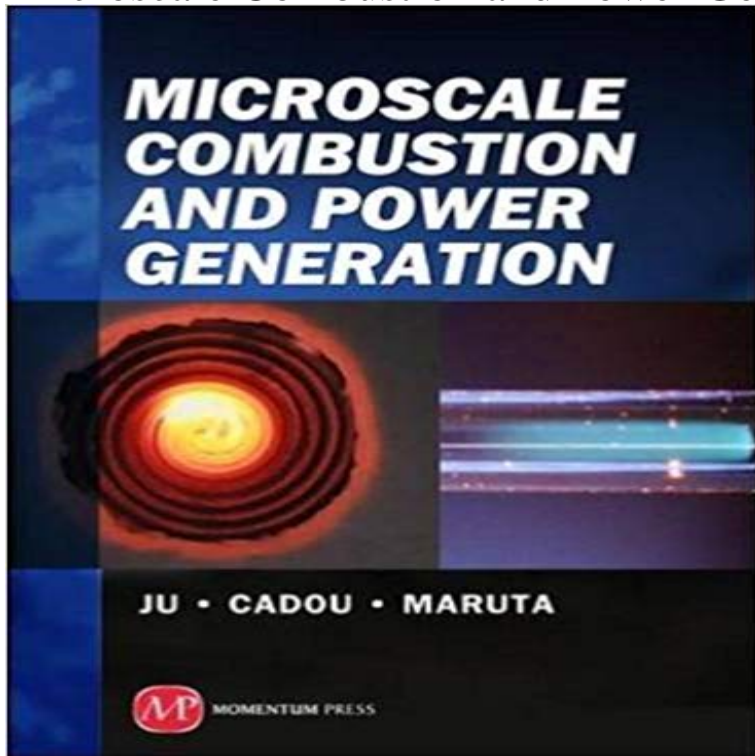


Microscale Combustion and Power Generation



As part of the revolution in miniaturized engineering materials and systems, combustion mechanisms at the micro-scale are being studied for use in a variety of novel applications, from remote, automated military purposes and transportation to portable electronics. This new addition to MP's Sustainable Energy series focuses on combustion utilizing micro-scaled engines as well as devices and systems that employ combustion phenomena at very small fuel-air mixtures in novel configurations like the CIPaperback engine. They take advantage of the extremely high surface-to-volume relationships in small scale combustion mixtures to attain very high-energy efficiencies with a minimum of undesirable residue and waste gases. Little has been published in book form that brings together in one place the large variety of research, experimentation and prototypes of micro-combustion engines and systems. Engineers and scientists working in energy-related fields will find here the latest in the direction of new research and design, including the * newest developments in micro-scale combustion, with a focus on fuel-efficient, sustainable energy generation. * latest results on small-scale liquid film combustors, micro-tubes and porous combustors, and micro heat engines. * features of the CIPaperback engine (cavity-ignition buHardcoverle combustion engine, as an innovative new alternative energy engine.

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