



Microscale Combustion and Power Generation

Christopher Cadou

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Recent advances in microfabrication technologies have enabled the development of entirely new classes of small-scale devices with applications in fields ranging from biomedicine, to wireless communication and computing, to reconnaissance, and to augmentation of human function. In many cases, however, what these devices can actually accomplish is limited by the low energy density of their energy storage and conversion systems. This breakthrough book brings together in one place the information necessary to develop the high energy density combustion-based power sources that will enable many of these devices to realize their full potential. Engineers and scientists working in energy-related fields will find:

- An overview of the fundamental physics and phenomena of microscale combustion;
- Presentations of the latest modeling and simulation techniques for gasphase and catalytic micro-reactors;
- The latest results from experiments in small-scale liquid film, microtube, and porous combustors, micro-thrusters, and micro heat engines;
- An assessment of the additional research necessary to develop compact and high energy density energy conversion systems that are truly practical.

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