Título:

Autor:

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Sinopsis

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New chapter on new combustion concepts and technologies, including discussion on nanotechnology as related to combustion, as well as microgravity combustion, microcombustion, and catalytic combustion_all interrelated and discussed by considering scaling issues (e.g., length and time scales).
*New information on sensitivity analysis of reaction mechanisms and generation and application of reduced mechanisms
*Expanded coverage of turbulent reactive flows to better illustrate real-world applications
*Important new sections on stabilization of diffusion flames. For the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization
Description

Combustion Engineering, a topic generally taught at the upper undergraduate and graduate level in most mechanical engineering programs, and many chemical engineering programs, is the study of rapid energy and mass transfer usually through the common physical phenomena of flame oxidation. It covers the physics and chemistry of this process and the engineering applications_from the generation of power such as the internal combustion automobile engine to the gas turbine engine. Renewed concerns about energy efficiency and fuel costs, along with continued concerns over toxic and particulate emissions have kept the interest in this vital area of engineering high and brought about new developments in both fundamental knowledge of flame and combustion physics as well as new technologies for flame and fuel control.

Readership

¦Upper undergraduate and graduate-level students in mechanical and chemical engineering