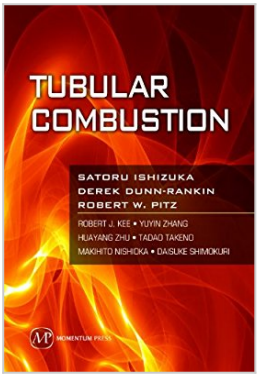

Tubular Combustion (Sustainable Energy)

By Satoru Ishizuka, Derek Dunn-Rankin

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Tubular combustors are cylindrical tubes where flame ignition and propagation occur in a spatially confined, highly controlled environment, in a nearly flat, elongated geometry. This allows for some unique advantages where extremely even heat dispersion is required over a large surface while still maintaining fuel efficiency. Tubular combustors also allow for easy flexibility in type of fuel source, allowing for quick changeover to meet various needs and changing fuel pricing. This new addition to the MP sustainable energy series will provide the most up-to-date research on tubular combustion--some of it only now coming out of private proprietary protection. Plentiful examples of current applications along with a good explanation of background theory will offer readers an invaluable guide on this promising energy technology. Highlights include: * An introduction to the theory of tubular flames * The "how to" of maintaining stability of tubular flames through continuous combustion * Examples of both small-scale and large-scale applications like steel making, chemical processing, flexible-fuel-source heaters, efficient boilers, and other similar uses

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Editorial Review

About the Author
Hiroshima, Japan; Professor, University of Hiroshima

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