

Combustion Technology: Essentials of Flames and Burners



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COMBUSTION TECHNOLOGY: ESSENTIALS OF FLAMES AND BURNERS

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Ane Books, 2016. Hardcover. Book Condition: New. 1st Edition. Contents: 1. Introduction. 2. Review of combustion thermodynamics and kinetics. 3. Review of combustion phenomena. 4. Burners for gaseous fuels. 5. Burners for liquid fuels. 6. Solid fuel systems. 7. Alternative fuels. Index. This book is intended for post-graduate students in Mechanical and allied engineering disciplines. It will also be helpful to scientists and engineers working in the areas of combustion to recapitulate the fundamental and generally applied aspects of combustion. Some of the salient features of the book are: Comprehensively covers the fundamental aspects of combustion. Includes physical descriptions of premixed and non-premixed flames. Provides a detailed analysis of the basic ideas and design characteristics of burners for gaseous, liquid and solid fuels. A chapter on alternative renewable fuels has also been included to bring out the need, characteristics and usage of alternative fuels. Review questions have been provided at the end of each chapter which will help the students to evaluate their understanding of the important concepts covered in that chapter. Several standard text books have been cited in the chapters and are listed towards the end, as suggested reading, to enable the readers to refer them when required.

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