

Table of Contents

- Introduction and Review of Thermodynamics
- Stoichiometry and Thermochemistry of Reacting Systems
- Reaction Direction and Equilibrium
- Fuels. Chemical Kinetics
- Mass Transfer
- First Law Applications
- Conservation Relations
- Combustion of Solid Fuels, Carbon, and Char
- Diffusion Flames Liquid Fuels
- Combustion in Boundary Layers
- Combustion of Gas Jets
- Ignition and Extinction
- Deflagration and Detonation
- Flame Propagation and Flammability Limits
- Interactive Evaporation and Combustion
- Appendix B
- Pollutants Formation and Destruction
- An Introduction to Turbulent Combustion Problems Formulae
- Appendix A
- References
- Index