

- Soil Washing
- Contaminant Availability
- Waste Recovery & Reuse
- Plant Based Remediation
- Non-Aqueous Phase Liquids (NAPLs)
- Solid Waste Disposal
- Standards for Brownfield Restoration
- Site Management
- Pollutant Measurement
- Site Restoration/Brownfields
- Site and Facility Management

An index of papers and authors from the previous five conferences plus one covering only this year end the book.

Gary F. Bennett

Environmental and Safety Aspects of Combustion Technology. J.C. Jones, Whittles Publishing, Caithness, Scotland, UK, 1997, 182 pp., £14.95, ISBN: 1-870325-66-4.

The combustion of fossil fuels is, and will continue to be for decades, the dominant source of energy. However, emissions of greenhouse gases (especially carbon dioxide, methane and N_2O) as well as acid-forming gases (oxides of nitrogen and oxides of sulfur) and particulates are of concern to air pollution control regulatory officials.

The author presents information on selected areas of combustion as they relate to safety and the environment. The first three chapters discuss pollution resulting from the emissions of oxides of sulfur, nitrogen and particulates. The book then proceeds from emissions (pollution) to fuels. Chapter 4 discusses waste from coal winning, storage and utilization. The next two chapters discuss emissions of contaminants (dioxin included) from the incineration and pyrolysis/gasification of waste.

Hydrocarbons dominate most of the rest of the book with three chapters devoted to the aspects of combustion, fire retardation and extinguishment, and some relevant experimental techniques (concerned with fire and explosion hazard).

The final chapter is devoted to a discussion of the thermodynamics of combustion.

The text contains numerous worked examples and case studies. The final section contains 40 numerical problems suitable for student use. Unlike American texts, however, the solutions to the foregoing problems are printed in the book (most American texts have a separate solutions manual available to the instructor).

The book contains much useful material including a reasonable number of appropriate references. Missing, however, are technical solutions to the aforementioned pollution problems. The problem (of emission) is well-defined; the solutions to the problem are not. Personally, I would have added a brief discussion of control devices/systems.

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