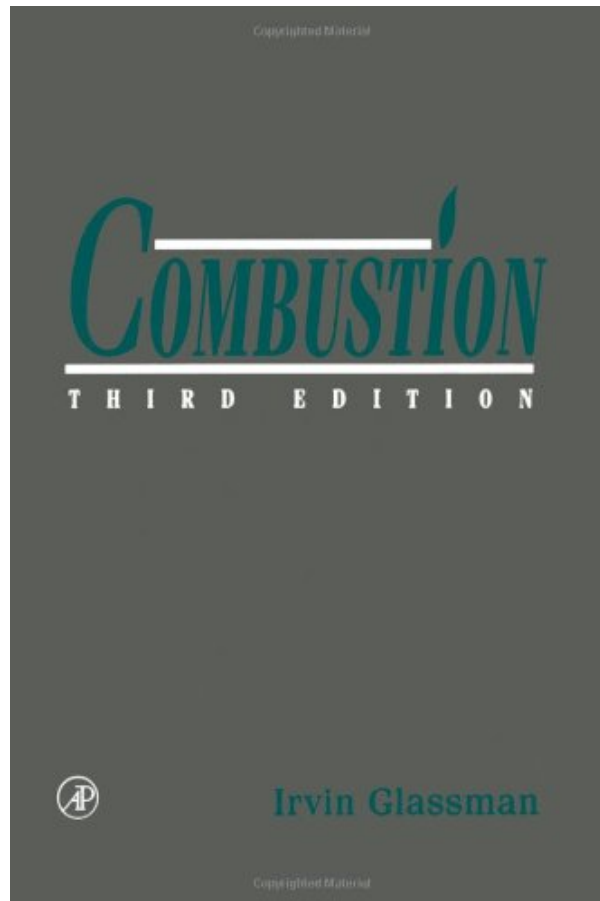


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"This book has now become one of the most important textbooks and teaching aids to combustion. It will remain as a record of the great debt that combustion science and technology owes to the teachings of Professor Glassman."

--INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER

## About the Author

Dr. Irvin Glassman received both his undergraduate and graduate degrees in Chemical Engineering from The Johns Hopkins University. In 1950 he joined Princeton University, and is currently Robert H. Goddard Professor of Mechanical and Aerospace Engineering. He has also been American Cyanamid Professor of Environmental Sciences and Director of Princeton's Center for Energy and Environmental Studies. For 15 years Dr. Glassman represented the United States as a member (and former chairman) of the Propulsion and Energetics Panel of AGARD/NATO. He has been a member of numerous committees, task forces, and research teams, and is currently a member of The National Academy of Engineering and many other professional and honorary societies. Dr. Glassman is listed in Who's Who in America, Who's Who in the World, Outstanding Educators of America, and American Men of Science.

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# COMBUSTION, THIRD EDITION BY IRVIN GLASSMAN PDF

This Third Edition of Glassman's classic text clearly defines the role of chemistry, physics, and fluid mechanics as applied to the complex topic of combustion. Glassman's insightful introductory text emphasizes underlying physical and chemical principles, and encompasses engine technology, fire safety, materials synthesis, detonation phenomena, hydrocarbon fuel oxidation mechanisms, and environmental considerations. Combustion has been rewritten to integrate the text, figures, and appendixes, detailing available combustion codes, making it not only an excellent introductory text but also an important reference source for professionals in the field.

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- \* Clarifies postulates in the text using extensive computational results in figures
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This is a combustion book which gives emphasis not only on the thermo-fluid aspect of combustion encountered in premixed and diffusion flames, but also devotes two chapters on the chemical principles of hydrocarbon oxidation and pollutant formation.

The mathematical formulations of the phenomena analysed are of course presented (chemical reaction mechanisms, flame propagation, diffusion flames, ignition, detonation etc). More importantly, however, the writer achieves to enhance the reader's physical and chemical intuition on the subjects analysed, be it flames, hydrocarbon oxidation or pollutant formation.

Moreover, the appendices are a source of a great amount of data, ranging from bond dissociation energies, to thermophysical properties, flammability limits, autoignition temperatures, reaction rate constants, etc.

The fact that this book has been cited in almost every other book on combustion is, of course, not coincidental.

An inspiring book.

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