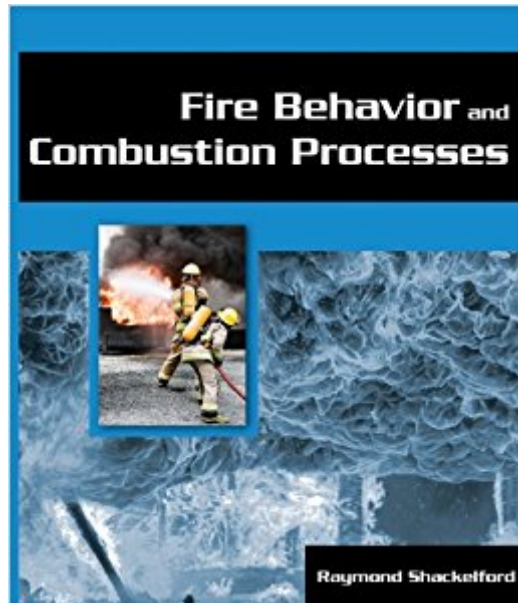




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# Fire Behavior And Combustion Processes



## Synopsis

Perform to an optimum level on the fireground by learning safe response methods based on the knowledge of how a fire starts, reacts, and escalates under various conditions. Straight-forward and reader-friendly, *Fire Behavior and Combustion Processes* clearly explains the key technical points of fire behavior and how each relates to the tasks involved in firefighting. Rather than an engineering-level text, this resource offers basic need-to-know information and examples to illustrate to firefighters and students why it is essential to their jobs to understand how a fire behaves - whether they are working in a burning building or are involved in a vehicle extrication. Based on the National Fire Academy FESHE course *Fire Behavior and Combustion Processes*, this book is essential to fire programs in colleges, academies, and departments.

## Book Information

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Ray Shackelford is a professor and director of the Fire Protection Administration program at California State University at Los Angeles, and a retired fire chief with over 40 years of experience in the fire service. Dr. Shackelford has led and participated in numerous committees and projects

that are seen in current academic thought, and in fire department emergency and administrative management practices. His background and knowledge put him in great demand by governmental agencies and nonprofit organizations throughout the United States and as a consultant to governments around the world. He has visited Japan, China, and Taiwan a number of times and has provided valuable assistance in emergency preparedness and fire service operations. A visionary, Dr. Shackelford has been instrumental in the shape of the fire service, as a senior fire official, author, lecturer, and professor.

A great fire physics and chemistry book. I bought this for an upcoming course this fall so that I could read it ahead of time because I was wondering how complex this course was. Truth be told, this book isn't as complicated as one would expect from a physics book. In the beginning of the book, it goes over the general physics of atoms and so on, and other basic physics topics. Here's a list of the chapters this book goes over: 1. Fire service history 2. Fire chemistry 3. Combustion processes 4. Extinguishing agents 5. Fire fighting tactics and strategies 6. Special concerns in fire fighting 7. High rise building fires 8. Wildland fires 9. Transportation fires (i.e. cars) 10. Hazardous materials and warning systems I haven't read 100% of the book as of yet, but so far, I'm not lost. I get everything. Everything is simple. It was shocking. However, there are a lot of key points in this book, of course, so I recommend studying this like once a day.

Great book, easy reading. I like the inserts and side bars. The questions at the end of the chapters are great for review.

An ok read, but I would suggest "Fire Investigator, Principles and practices of NFPA 921 and 1033". The "Combustion Process" book put me to sleep quicker than most...you know what I mean.

Not much else to say other than it is a great book, the writing and diagrams have been most helpful

It said it was going to be like new and it was brand new.

Good book and full of good information. I used this book for my college class.

I needed this textbook for my Fire Technology degree. It was very informative and helped me pass the class with ease. The book is filled with diagrams and photos which are really helpful! Not much

more to say!

It was great

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