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Few books cover experimental and theoretical methods to characterize decomposition, combustion and detonation of energetic materials. This volume, by internationally known and major contributors to the field, is unique because it summarizes the most important recent work, what we know with confidence, and what main areas remain to be investigated. Most chapters comprise summaries of work spanning decades and contain expert commentary available nowhere else. Although energetic materials are its focus, this book provides a guide to modern methods for investigations of condensed and gas-phase reactions. Although these energetic reactions are complex and difficult to study, the work discussed here provides readers with a substantial understanding of the behavior of materials now in use, and a predictive capability for the development of new materials based on target properties.

Contents:

Connecting Molecular Properties to Decomposition, Combustion and Explosion Trends (T B Brill)

Thermal Decomposition Processes of Energetic Materials in the Condensed Phase at Low and Moderate Temperatures (R Behrens)

Study of Energetic Material Combustion Chemistry by Probing Mass Spectrometry and Modeling of Flames (O P Korobeinichev)

Optical Spectroscopic Measurements of Energetic Material Flame Structure (T Parr & D Hanson-Parr)

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Ideas to Expand Thinking About New Energetic Materials (J Bottaro)