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The book contains 31 selected papers addressing the fundamental and applied issues of explosion dynamics and hazards written by world-known experts. The papers have been presented at the 7th International Symposium on Hazard, Prevention, and Mitigation of Industrial Explosions held in St. Petersburg, Russia, July 7–11, 2008. The papers have been reviewed, revised, and thoroughly edited and include theoretical and experimental findings, critical analyses of previous results as well as numerous references to archival publications worldwide. The book is organized in three parts: (1) Explosions of Gaseous Mixtures, (2) Explosions of Heterogeneous Mixtures, and (3) Explosions of Condensed Matter.

The volume is prepared as a reference for research scientists and practicing engineers in the fields of industrial explosion hazards, prevention and mitigation.

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Edited by S. M. Frolov, F. Zhang, and P. Wolański

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