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Titolo	Detonation phenomena of condensed explosives // Shiro Kubota, editor
Pubbl/distr/stampa	Singapore : , : Springer, , [2023] ©2023
ISBN	9789811953071 9789811953064
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (298 pages)
Collana	Shock wave and high pressure phenomena
Disciplina	530.41
Soggetti	Condensed matter Detonation waves Explosives
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Shock and detonation phenomena -- Theory and instrumentation of shock wave and detonation.-Description of Detonation Phenomena -- Shock initiation -- Ideal and Non-ideal detonation -- Application of shock wave generated by detonation -- Future perspective.
Sommario/riassunto	This book presents fundamental theory of shock and detonation waves as well as selected studies in detonation research in Japan, contributed by selected experts in safety research on explosives, development of industrial explosives, and application of explosives. It also reports detonation research in Japan featuring industrial explosives that include ammonium nitrate-based explosives and liquid explosives. Intended as a monographic-style book, it consistently uses technical terms and symbols and creates organic links between various detonation phenomena in application of explosives, fundamental theory of detonation waves, measurement methods, and individual studies. Among other features, the book presents a historical perspective of shock wave and detonation research in Japan, pedagogical materials for young researchers in detonation physics, and an introduction to works in Japan, including equations of state, which are worthy of attention but about which very little is known

internationally. Further, the concise pedagogical chapters also characterize this book as a primer of detonation of condensed explosives and help readers start their own research.
