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SECOND EDITION

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Ronak K. Kapadia

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Energetic Materials Manoj K. Shukla, Veera M. Boddu, Jeffery A. Steevens, Reddy Damavarapu, Jerzy Leszczynski, 2017-10-09 This book offers a comprehensive account of energetic materials including their synthesis computational modeling applications associated degradation mechanisms environmental consequences and fate and transport This multi author contributed volume describes how armed forces around the world are moving their attention from legacy explosive compounds which are heat and shock sensitive thus posing greater challenges in terms of handling and storage to the insensitive munitions compounds formulations such as insensitive munitions explosive IMX and the Picatinny Arsenal Explosive PAX series of compounds The description of energetic materials focuses on explosives pyrotechnic compositions and propellants The contributors go on to explain how modern generation energetic compounds must be insensitive to shock and heat but at the same time yield more energy upon explosion Nanoinspired and or co crystallized energetic materials offer another route to generate next generation energetic materials and this authoritative book bridges a large gap in the literature by providing a comprehensive analysis of these compounds Additionally it includes a valuable overview of energetic materials a detailed discussion of recent advances on future energetic compounds nanotechnology in energetic materials environmental contamination and toxicity assessment of munitions lethality the application quantitative

structure activity relationship QSAR in design of energetics and the fate and transport of munition compounds in the environment **Forthcoming Books** Rose Arny, 2000 *Scientific and Technical Aerospace Reports*, 1977

Contamination of Water Arif Ahamad, Sharf Elahi Siddiqui, Pardeep Singh, 2021-08-06 Water containing significant amounts of inorganic and organic contaminants can have serious environmental consequences and serious health implications when ingested Contamination of Water Health Risk Assessment and Treatment Strategies takes an interconnected look at the various pollutants the source of contamination the effects of contamination on aquatic ecosystems and human health and what the potential mitigation strategies are This book is organized into three sections The first section examines the sources of potential contamination This includes considering the current scenario of heavy metal and pesticide contamination in water as well as the regions impacted due to industrialization mining or urbanization The second section goes on to discuss water contamination and health risks caused by toxic elements radiological contaminants microplastics and nanoparticles and pharmaceutical and personal care products This book concludes with a section exploring efficient low cost treatment technologies and remediation strategies that remove toxic pollutants from water Contamination of Water incorporates both theoretical and practical information that will be useful for researchers professors graduate students and professionals working on water contamination environmental and health impacts and the management and treatment of water resources Provides practical case studies of various types and sources of contamination Discusses inorganic and organic contaminants and their impact on human health Evaluates effective water treatment and remediation technologies to remove toxins from water and minimize risk

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