



Ammonium Nitrate Explosives for Civil Applications: Slurries, Emulsions and Ammonium Nitrate Fuel Oils

By Erode G. Mahadevan

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The book describes the science and technology of formulation and manufacturing of non-nitroglycerine explosives with ammonium nitrate as the main ingredient. Based on the author's industry experience of more than thirty years, it provides an unparalleled treatment of one of the commercially most important classes of explosives and therefore stimulates further research and development efforts in the field of explosives for civil applications.

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Editorial Review

From the Back Cover

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as the main ingredient. Based on the author's industry experience of more than thirty years, it provides an unparalleled treatment of one of the commercially most important classes of explosives and therefore stimulates further research and development efforts in the field of explosives for civil applications.

Explosives based on ammonium nitrate can be handled more easily than other explosives because they are more stable and less sensitive to external stimuli such as pressure, shaking or inadvertent ignition. Consequently, they provide more safety for both the manufacturer and the end user, making them the explosives of choice for civil applications such as mining, construction and pyrotechnics.

This book is an invaluable addition to the library of any Explosives and Mining Specialist, Pyrotechnician, Materials Scientist, Military Authority, and Safety Officer.

About the Author

Erode Mahadevan is currently a Technology Consultant based in India. Before that for more than thirty years he was engaged in the field of commercial explosives and accessories and specialty chemicals. He has worked with many multinational companies such as ICI (UK), BASF (Germany), Atlas Chemicals (USA), Dow Chemical (USA), Nitro Nobel (Sweden), Dyno Industries (Norway). For twenty years Erode Mahadevan was Managing Director of IDL Industries Ltd., a leading producer of civil explosives based in India. He holds a Masters Degree in Physical Chemistry from the University of Mysore, Bangalore, and a PhD from the Technische Hochschule in Karlsruhe, Germany. Before starting his career in industry, Erode Mahadevan was a postdoctoral researcher at the Department of Chemistry at the Columbia University, New York.

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