

Rock Blasting And Explosives Engineering Hardcover

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this text presents the basic technologies used in the engineering of explosives and explosive systems i e chemistry burning detonation shock waves initiation theories scaling the book is written for upper division undergraduate or graduate level scientists and engineers and assumes a good grasp of basic physics chemistry mechanics and mathematic through calculus it is based on lecture notes used for graduate courses at the dept of energy laboratories and could serve as a core text for a course at schools of mining or military engineering the intent of the book is to provide the engineer or scientist in the field with an understanding of the phenomena involved and the engineering tools needed to solve design analyze a broad range of real problems

introduction to the technology of explosives paul w cooper and stanley r kurowski introduction to the technology of explosives is a clear and concise survey of the technologies and physical processes involved in explosive phenomena the book is intended to provide the worker

new to the field with sufficient background to understand problems that may arise and to interact intelligently with specialists in the field the book covers the fundamentals of the chemistry of explosives the mechanics of burning sound shock and detonation initiation and initiators scaling in design and analysis and off the shelf explosive devices it provides the basic calculational skills needed to solve simple first order engineering design problems and emphasizes the crucial importance of safety considerations the book contains a broad range of data on explosive materials and their properties and behavior along with extensive lists of useful references example problems with solutions are provided in each technical area as are descriptions and analysis of a wide variety of explosive devices the book concludes with a thorough and comprehensive description of regulatory requirements for the classification transportation and storage of explosives and an extensive guide to explosives safety in plant and test facilities this book will be of interest to explosives technicians and engineers government regulators crime and accident scene investigators and instructors in military police and fbi bomb schools

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rock blasting and explosives engineering covers the practical engineering aspects of many different kinds of rock blasting it includes a thorough analysis of the cost of the entire process of tunneling by drilling and blasting in comparison with full face boring also covered are the fundamental sciences of rock mass and material strength the thermal decomposition burning shock initiation and detonation behavior of commercial and military explosives and systems for charging explosives into drillholes functional descriptions of all current detonators and initiation systems are provided the book includes chapters on flyrock toxic fumes the safety of explosives and even explosives applied in metal working as a fine art fundamental in its approach the text is based on the practical industrial experience of its authors it is supported by an abundance of tables diagrams and figures this combined textbook and handbook provides students practitioners and researchers in mining mechanical building construction geological and petroleum engineering with a source from which to gain a thorough understanding of the constructive use of explosives

this is a broad based text on the fundamentals of explosive behavior and the application of explosives in civil engineering industrial processes aerospace applications and military uses

explosives are used around the world for both productive purposes such as building hydroelectric dams and mining and destructive purposes primarily by the military explosives are usually divided into two classes those that burn and those that detonate detonated explosives typically produce a shock front or shock wave that results from an exothermic chemical reaction this chemical reaction usually results in a relatively stable compound being exposed to a concentrated source of energy such as a blasting cap or other type of detonation device the solid explosive will phase shift to a high temperature expanding gas in approximately one millionth of a second a nanosecond with pressures exceeding several million pounds per square inch for one example we can examine det cord also known as primacord which is usually produced in rolled up or coiled section of cord this cord is then unwound and when detonated will produce an explosive front along the length of the cord that travels at the speed of 5 miles per second in other words if you laid out 5 miles of det cord and detonated it the 5 miles of cord would be explosively spent in one second whereas if you burned or ignited the same amount cord it could take weeks to burn to completion this 2 volume set explains the nature of the various industrial and military explosives and also discusses some of the chemistry involved in these explosives particularly in the 2nd volume

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