



**Assessment
of Safety and
Risk with a
Microscopic Model of
Detonation** *Carl-Otto Leiber*

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Assessment Of Safety And Risk With A Microscopic Model Of Detonation

**Mohammad Hossein
Keshavarz, Thomas M. Klapötke**



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Assessment of Safety and Risk with a Microscopic Model of Detonation C.-O. Leiber, 2003-04-25 Whereas the current plane wave homogeneous flow detonation physics is an excellent engineering tool for numerical predictions under given conditions the multi hot spot model is an additional tool for analyzing phenomena that cannot be explained by classical calculations The real benefit comes from being able to understand without any artificial assumptions the whole phenomenology of detonations and explosions By specifying pressure generating mechanisms one is able to see that the current treatment of the detonics of energetic materials is only a very special but powerful case of explosion events and hazards It becomes clear that physical explosions must be taken into account in any safety considerations In these terms it is easy to understand why even liquid carbon dioxide and inert silo materials can explode A unique collection of unexpected events which might surprise even specialists has resulted from the evaluation of the model Ballistics Donald E.

Carlucci, Sidney S. Jacobson, 2025-05-07 Ballistics examines the analytical and computational tools for predicting a weapon s behavior in terms of pressure stress and velocity demonstrating their applications in ammunition and weapons design It includes updated and revised equations end of chapter problems case studies and practical examples Explaining the physics of a gun launch the book describes the behavior of the propelling charge that moves the projectile through the gun tube and the necessary methods to calculate how the projectile will fly The new edition features a new chapter on closed vessel experimentation and analysis which discusses closed bomb testing to incorporate new propellants into interior ballistics designs It covers the mathematical fundamentals that are key to developing a safe and reliable gun system With its thorough coverage of interior exterior and terminal ballistics this new edition continues to be the standard resource for ballistics experts and researchers studying the technology of guns and ammunition and designing state of the art propellants Instructors will be able to utilize a Solutions Manual and Figure Slides for their course Adiabatic Shear Localization

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report number indexes **Technological Solutions for Modern Logistics and Supply Chain Management** Luo, ZongWei, 2013-01-31 Technological Solutions for Modern Logistics and Supply Chain Management highlights theories and technological growth in applied research as well as advances in logistics supply chains and industry experiences Aiming to enhance the expansions made towards an efficient and sustainable economy this book is essential for providing researchers practitioners and academicians with insight into a wide range of topics **Fossil Energy Update** ,1985 **The Risks of Nuclear Energy Technology** Günter Kessler, Anke Vesper, Franz-Hermann Schlüter, Wolfgang Raskob, Claudia Landman, Jürgen Päsler-Sauer, 2014-08-22 The book analyses the risks of nuclear power stations The security concept of reactors is explained Measures against the spread of radioactivity after a severe accident accidents of core melting and a possible crash of an air plane on reactor containment are discussed The book covers three scientific subjects of the safety concepts of Light Water Reactors A first part describes the basic safety design concepts of operating German Pressurized Water Reactors and Boiling Water Reactors including accident management measures introduced after the reactor accidents of Three Mile Island and Chernobyl These safety concepts are also compared with the experiences of the Fukushima accidents In addition the safety design concepts of the future modern European Pressurized Water Reactor EPR and of the future modern Boiling Water Reactor SWR 1000 KERENA are presented These are based on new safety research results of the past decades In a second part the possible crash of military or heavy commercial air planes on reactor containment is analyzed It is shown that reactor containments can be designed to resist to such an airplane crash In a third part an online decision system is presented It allows to analyze the distribution of radioactivity in the atmosphere and to the environment after a severe reactor accident It provides data for decisions to be taken by authorities for the minimization of radiobiological effects to the population This book appeals to readers who have an interest in save living conditions and some understanding for physics or engineering Scientific and Technical Aerospace Reports ,1986 **Government Reports Announcements & Index** ,1986 NexGen Technologies for Mining and Fuel Industries (Volume I and II) Pradeep K. Singh, V.K. Singh, A.K. Singh, D. Kumbhakar, M.P. Roy, 2017-03-06 The papers in these two volumes were presented at the International Conference on NexGen Technologies for Mining and Fuel Industries NxGnMiFu 2017 in New Delhi from February 15 17 2017 organized by CSIR Central Institute of Mining and Fuel Research Dhanbad India The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies The major issues focused on are Innovative Mining Technology Rock Mechanics and Stability Analysis Advances in Explosives and Blasting Mine Safety and Risk Management Computer Simulation and Mine Automation Natural Resource Management for Sustainable Development Environmental Impacts and Remediation Paste Fill Technology and Waste Utilisation Fly Ash Management Clean Coal Initiatives Mineral Processing and Coal Beneficiation Quality Coal for Power Generation and Conventional and Non conventional Fuels and Gases This collection of contemporary articles contains unique knowledge case

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