



Delayed Detonation

Great Britain. Home Office



Delayed Detonation:

Delayed Detonation After Projectile Impact, 1993 In an effort to understand the mechanisms which cause munitions impacted by fragments to detonate we conducted a test series in which we impacted 105 mm HEP warheads Comp B loaded by flat faced cylindrical steel projectiles The velocity of the projectile was varied in order to determine a 50% velocity for detonation We instrumented our test with an external blast pressure probe and an internal carbon resistor gage so that we could discriminate between detonations and low order explosive reactions In addition witness plates were used to record the fragmentation pattern of the 105 mm rounds We have observed this broad categories of explosive reaction which are a function of the velocity of the impacting projectile 1 prompt detonation at fragment velocities above 1 150 m s 3 773 ft s 2 delayed detonation at fragment velocities around 1 150 900 m s 3 609 2 952 ft s and 3 no detonation at fragment velocities below 900 m s 2 952 ft s For any given fragment velocity there was a wide variability in the measured delay time for explosive reaction We attribute this variability to possible differences in hit location of the flat nosed projectile on the cylindrical surface of the warhead which would cause differences between the impact shock loadings even though the fragment velocity was the same Delayed detonation Fragment impact Nonprompt detonation Ammunition fragments Explosion effects Fragment velocity

A Summary of the Mechanism of Delayed Detonation A. G. Butcher, K. P. McCarty, R. L. Keefe, E. J. Bloomer, HERCULES INC MAGNA UT BACCHUS WORKS., 1984 For the past several years extensive studies have been conducted into the aspects of certain observed types of delayed detonation phenomena These studies have been directed primarily to events preceding detonation as opposed to events after shock formation has occurred The types of detonation transition which have been investigated are deflagration to detonation transition DDT and impact initiated delayed detonation XDT Most of the work has been published under the individual topics of XDT and DDT This paper presents a summary of the work on both subjects in an effort to show similarities in the basic behavior of delayed detonation It references experimental results from XDT and DDT and ties these results together with respect of the basic mechanisms leading to transition Published work from several laboratories are referenced to broaden the data base of condition under which delayed detonation can occur Author

Cosmic Explosions J.M. Marcaide, Kurt Weiler, 2005-11-21 Supernovae are among the most energetic phenomena in the Universe and related to almost all aspects of modern astrophysics including starburst galaxies cosmic ray acceleration neutron star and black hole formation nucleosynthesis and ISM chemical enrichment energy input to the ISM cosmic distance scale determination dark energy related cosmological acceleration gamma ray bursts extra solar system neutrino burst detection gravity wave generation and many more Additionally the past 15 years have been particularly productive with many new results and new understanding due in particular to the closest SN in 400 years in SN 1987A in the Large Magellanic Cloud and the unusually bright and close SN 1993J and SN 1994I in the nearby galaxies M81 and M51 respectively In addition the discovery of the gamma ray burst GRB 980425 and its related supernova SN

1998bw and the confirmation of GRB 030329 SN 2003dh tied the study of SNe and GRBs inextricably together. With the many developments since the last major supernova meeting in La Serena Chile in 1997 we felt that it was an appropriate time to bring together experts and students interested in the subject for a meeting where SN and GRB properties and interrelationships could be discussed. The tenth anniversary of SN 1993J provided such an opportunity and appropriately the meeting was held in Spain where SN 1993J was discovered on the early morning of 28 March 1993 by a Spanish amateur astronomer Francisco Garcia.

Supernovae and Gamma-Ray Bursts Mario Livio, Nino Panagia, Kailash Sahu, 2001-07-02. Since the dramatic discovery that the supernova SN1998bw coincided in position and time with a gamma ray burst the possibility was raised that these two types of spectacular explosions are related. This timely volume presents especially written articles by a host of world experts who gathered together for an international conference at the Space Telescope Science Institute. This was the first meeting in which the communities of supernova researchers and gamma ray burst researchers were brought together to share ideas. The contributions review the mechanisms for these explosive events, the possible connections between them and their relevance for cosmology. Both observations and theoretical developments are covered. This book is an invaluable source of information for both active researchers and graduate students in this exciting area of research.

Supernova Explosions David Branch, J. Craig Wheeler, 2017-08-02. Targeting advanced students of astronomy and physics as well as astronomers and physicists contemplating research on supernovae or related fields, David Branch and J. Craig Wheeler offer a modern account of the nature, causes and consequences of supernovae as well as of issues that remain to be resolved. Owing especially to 1) the appearance of supernova 1987A in the nearby Large Magellanic Cloud, 2) the spectacularly successful use of supernovae as distance indicators for cosmology, 3) the association of some supernovae with the enigmatic cosmic gamma ray bursts, and 4) the discovery of a class of superluminous supernovae, the pace of supernova research has been increasing sharply. This monograph serves as a broad survey of modern supernova research and a guide to the current literature. The book's emphasis is on the explosive phases of supernovae. Part 1 is devoted to a survey of the kinds of observations that inform us about supernovae, some basic interpretations of such data, and an overview of the evolution of stars that brings them to an explosive endpoint. Part 2 goes into more detail on core collapse and superluminous events, which kinds of stars produce them, and how do they do it. Part 3 is concerned with the stellar progenitors and explosion mechanisms of thermonuclear Type Ia supernovae. Part 4 is about consequences of supernovae and some applications to astrophysics and cosmology. References are provided in sufficient number to help the reader enter the literature.

Stellar Explosions Jordi Jose, 2016-01-05. Stars are the main factories of element production in the universe through a suite of complex and intertwined physical processes. Such stellar alchemy is driven by multiple nuclear interactions that through eons have transformed the pristine metal-poor ashes leftover by the Big Bang into a cosmos with 100 distinct chemical species. The products of

Cosmic Explosions in Three Dimensions Peter Höflich, Pawan Kumar, J. Craig Wheeler, 2004-12-16

Supernovae and gamma ray bursts are the strongest explosions in the Universe Observations show that rather than being symmetrical they are driven by strong jets of energy and other asymmetrical effects These observations demand theories and computations that challenge the biggest computers This volume marks the transition to a fresh paradigm in the study of stellar explosions It highlights the burgeoning era of routine supernova polarimetry and the insights into core collapse and thermonuclear explosions With chapters by leading scientists the book summarises the status of a fresh perspective on stellar explosions and should be a valuable resource for graduate students and research scientists

Solid Propellant Chemistry Combustion and Motor Interior Ballistics 1999 Vigor Yang,2000 **Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14 Meeting On General Relativity (In 4 Parts)** Massimo Bianchi,Robert T

Jantzen,Remo Ruffini,2017-10-13 The four volumes of the proceedings of MG14 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 35 morning plenary talks over 6 days 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics The remaining volumes include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

Explosives Act, 1875. Annual Report of His Majesty's Inspectors of Explosives Great Britain. Home Office,1898 *Interacting Binaries* Luciano Burderi,2005-11-02 This conference examines the progress in the field of interacting binaries discussing a number of relevant astrophysical problems regarding the interaction between stars in binary systems such as the physics of neutron stars and black holes that accrete matter from their companion stars and the study of the end points of stellar evolution like supernovae and gamma ray bursts This proceedings provides an updated overview of both observations and theory Topics include compact binaries in globular clusters millisecond binary pulsars

supernovae from massive binary systems and GRBs accretion on black holes and microquasars accretion on white dwarfs and novae rapid variability and secular evolution of LMX Ray binaries supernovae type Ia as well as secular evolution of high mass x ray binaries

Parliamentary Papers Great Britain. Parliament. House of Commons,1905 *Report* Commonwealth Shipping Committee,1909 **Mines and Quarries. Reports ... 6. Midland and Southern Division** ,1915

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Unveiling the Magic of Words: A Report on "**Delayed Detonation**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Delayed Detonation**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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