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## Toward Detonation Theory

**a. dremin to cite this version - accueil** - theory generalization. detonation wave has been represented as a shock wave with energy evolution inside the wave front. it was the most prominent step in detonation theory progress. however\$ is a well-known fact that the c3 hydrodynamic theory of detonation has not been fully developed. **toward new explosive molecules** - toward new explosive molecules, w e have, in our supply of ex- 1.9 to 2.1g/cm3.explosives in this range are nevertheless, we have had some remarkable plosives, both the most energetic expected to be extremely powerful. un- success. a particular high point at los **shock wave and high pressure phenomena - springer** - shock wave and high pressure phenomena founding editor r. a. graham, usa honorary editors l. davison, usa y. horie, usa editorial board g. ben-dor, israel **shock wave and high pressure phenomena - springer** - shock wave and high pressure phenomena editors-in-chief lee davison yasuyuki horie founding editor robert a. graham ... detonation of condensed explosives l. davison, d. grady, and m. shahinpoor ... toward detonation theory y. horie, l. davison, and n.n. thadhani (eds.): high-pressure shock compression **an - apps.dtic** - detonation theory each failure mode results in an impact event or events leading to the possibility of detonation of some or all of the propellant ejected. the velocity of the impact events is to be compared to that required for initiation of detonation of all or part of the propellant mass. for the axial cases a single large **shock wave and high pressure phenomena - springer** - shock wave and high pressure phenomena series editor-in-chief l. davison, usa y. horie, usa founding editor r. a. graham, usa advisory board v. e. fortov, russia **the direct simulation of detonations** - the direct simulation of detonations patrick d. o'connor\*, lyle n. long†, and james b. anderson‡ pennsylvania state university, university park, pa, 16802 in this paper we review the status of the simulation of detonations using the direct simulation monte carlo method and report on progress in applications to the hydrogen-chlorine system. **high-pressure shock compression of condensed matter** - fine diamond particles in explosive detonation products. the mechanism of diamond formation under shock compression involves at least two processes; one is a martensitic, fast rearrangement of carbon atoms and the other is a proc ess of nucleation and growth of activated elemental carbon. these mechanisms can also occur in nature. **rotating detonation wave propulsion: experimental ...** - arankine published a paper in 1866 entitled "on the theory of explosive gas-engines" ([2], articlexxvii, ... not much is known as to why the wave rotates around the annulus instead of just flaming out toward the ... developed detonation wave is established, such a wave will sustain itself so long as it is supplied with reactants. thus, ddt ... **qualitative modeling of the dynamics of detonations with ...** - qualitative modeling of the dynamics of detonations with losses luiz m. faria, aslan r. kasimov† applied mathematics and computational science, room 4-2226, 4700 king abdullah university of science and technology, thuwal 23955-6900, saudi arabia abstract **the detonation of explosives - jstor** - the detonation of explosives a detonation sweeps through an explosive as a supersonic shock wave driven by the energy-releasing chemical reactions the wave induces. a comprehensive theory that describes the process is still lacking in 1846 the italian chemist ascanio sobrero noted that combining ni tric acid and glycerol resulted in a

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