
Liquid Propellant Gun Technology Progress Astronautics

is a liquid propellant gun a viable - apps.dtic - is a liquid propellant gun a viable option for the future main battle tank in the united states army by maj curtis l. mccoey, usa, 112 pages. this study is an examination of three areas: historical u.s. liquid propellant development, liquid propellant logistical considerations and the technical considerations in the ... **odjc file copj y - apps.dtic** - bibliography on liquid propellant gun technology, which resides at the chemical propulsion information agency, columbia, md. (1i) the exception is the cased lp charge. this approach was investigated in the 1950's as a means to field an lpg system rapidly. however, individually packaged charges negate many of the advantages of ... **liquid propellant gun technology - gbv** - liquid propellant gun technology giinter klingenberg fraunhofer-institut fur kurzzeitdynamik, ernst-mach-institut weil am rhein, germany john d. knapton walter f. morrison gloria p. wren u.s. army research laboratory aberdeen proving ground, maryland volume 175 progress in astronautics and aeronautics paul zarchan, editor-in-chief **interior ballistic simulations of the bulk-loaded liquid ...** - interior ballistics of the liquid propellant gun are determined by either the rate of injection of lp into the combustion chamber, as in the regenerative liquid propellant gun, or the hydrodynamics of the combustion gas-liquid propellant mixing process, as in the bulk-loaded liquid propellant gun (blpg). **experimental technologies - liquid propellant** - propellant, a differential piston with a number of different sized holes was used. in trials a rapira 3 anti-tank gun was converted to liquid propellant. despite the trials showing the system worked, it was found that it was next to useless on a towed weapon due to the bulk of the propellant tank and the lack of a laser rangefinder to **propellant components cartridge actuated devices ...** - propellant components gun propulsion cartridge actuated devices propellant actuated devices rockets and missile systems explosives and warheads propellant components the major ingredients of modern military propellants are actually few. they consist of fuels, oxidizers and binders (polymers), and are fairly basic in their chemical nature and ... **reaction was: what does this have to do - fort benning** - another generation of solid propellant tank guns without accurately assessing the total systems benefits of a liquid propellant tank gun. mr. ogorkiewicz provides an excellent overview of the past successes of regenerative liquid propellant (lp) gun program. this success has been achieved with considerable support from the u.s. **solid propellant propellant propellants - idc-online** - liquid propellant . common propellant combinations used for . liquid propellant rockets. include: red fuming nitric acid (rfna) and kerosene or rp-1 rfna and unsymmetrical dimethyl hydrazine (udmh) dinitrogen tetroxide and udmh, mmh and/or hydrazine liquid oxygen and kerosene or rp-1 liquid oxygen and liquid hydrogen liquid oxygen and ethanol **cl7si?i - defense technical information center** - a hypothetical 120-mm regenerative liquid propellant gun, using the model developed by t. coffee at the ballistic research laboratory. the information gained from this study may also aid in the design of regenerative liquid propellant guns other than the 120-mm studied here. the coffee code is a lumped parameter model of a regenerative liquid **chapter 10 combustion products of propellants and ammunition** - combustion products of propellants and ammunition 361 midgets did not feel too happy in the confines of their tank turret and driver's compartment. bad ventilation in the cramped interior caused fatigue and exhaustion, reducing combat efficiency and endurance. in fact, arab tank crews, overcome by deadly fumes **combustion of solid propellants - stanford university** - combustion of solid propellants double-base propellants are used in small and medium sized rockets and thus exposed to varying ambient temperatures. the sensitivity of the motor operation to temperature depends upon the propellant burning rate sensitivity to both the temperature and the pressure. as can be seen on fig. 2, the pressure **modeling of combustion and propulsion processes of a new ...** - solid propellant. in order to enhance the capabilities of tube weapon, especially the muzzle velocity, many new concept guns have been studied in the world using different kinds of energy resource, such as liquid propellant gun, electrothermal gun and electromagnetic gun. we find **nsiad-95-25 army armored systems: advanced field artillery ...** - army decided to use a liquid propellant (lp) rather than a solid or powder propellant that has traditionally been used in artillery guns. since this was a major departure from the normal development of an artillery system, we focused our review on the status of the afas' lp gun, the nature and extent **the history of solid-propellant rocketry: what we do and ...** - the history of solid-propellant rocketry: what we do and do not know j. d. hunley * nasa dryden flight research center edwards, california abstract contributions to the evolution of solid-propellant rocketry have come from a variety of sources. world war ii research on large solids enabled one company to capitalize on work in the area of ...

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