

Joint Munitions Effectiveness Manual

JTCG/ME, Joint Technical Coordinating Group for Munitions Effectiveness Joint Munitions Effectiveness Manual Joint Munitions Effectiveness Manual Joint Munitions Effectiveness Manual Program Generalized Weapon Effectiveness Modeling JTCG/ME, Joint Technical Coordinating Group for Munitions Effectiveness Joint Munitions Effectiveness Manual Reusability in Computer-aided Joint Munitions Effectiveness Manual Development Joint Munitions Effectiveness Manual Joint Munitions Effectiveness Manual Joint Munitions Effectiveness Manual Categorizing High Energy Laser Effects for the Joint Munitions Effectiveness Manual Index of Doctrinal, Training, and Organizational Publications Military Publications Operations: Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) Publications Department of Defense Appropriations for Fiscal Year ... Sensitivity Analysis of a Weapon Effectiveness Model Department of the Army The Design and Development of a Pattern Bombing Computer for the Joint Munitions Effectiveness Manual Joint Technical Coordinating Group for Munitions Effectiveness Oklahoma State University. Office of Engineering Research Colin M. Anderson U.S. Army Materiel System Analysis Activity Pamela Sue Wiseloge W. E. Baker United States. Air Force James A Markham United States. Department of the Army United States. Department of the Army United States. Congress. Senate. Committee on Appropriations George M. Gaydos United States. Congress. Senate. Committee on Appropriations Jerry A. McEwen

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in this thesis we compare weapon effectiveness methods to determine if current effectiveness models provide accurate results the united states military currently adheres to a compilation of data and methodologies named the joint munitions effectiveness manuals jmem to determine the effectiveness of air delivered weapons against a variety of ground targets since the time these manuals were implemented in the 1960s progress in technology has allowed the weapon target interaction to be more accurately modeled this thesis investigates the differences of these high fidelity models for unguided weapons and the jmem computations in order to determine whether the older more simplistic models need to be upgraded

with the high risk and cost in fielding high energy laser hel weapon systems the development process must include computer simulation models of weapon system performance from the engineering level up to predicting the military worth of employing specific systems in a combat scenario this research effort focuses on defining how to measure lethality for hel weapons in an advanced tactical laser atl scenario in order to create an effective measure for direct comparison between the emerging laser weapon system and existing conventionally delivered weapons lase time in seconds is presented as a measure comparable to rounds required to cause the desired effect at the target an examination of input parameters which influence the output power of the laser at the target and thus the required lase time is presented with particular attention being paid to atmospheric conditions and vulnerable bucket size this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

this instruction implements afpd 10 4 operations plannings and the 25 nov 1986 memorandum of agreement between the departments of the army navy and air force and the defense intelligence agency dia it describes the responsibilities of personnel who manage prepare publish distribute and use jtcg me publications it directs functional management for the publication joint munitions effectiveness manuals jmem and jtcg me special reports produced by the joint technical coordinating group for munitions effectiveness

several publications have been issued by the joint munitions effectiveness manual surface to surface jmem ss methodology and evaluation working group presenting the effectiveness of various us army mortar and artillery weapons systems against personnel and materiel targets the joint munitions effectiveness manuals have been produced under the auspices of the joint technical coordinating group munitions effectiveness for the purpose of providing the dod community with a uniform source of weapons effects data the effectiveness data included in these manuals incorporate munitions lethality delivery accuracy reliability and environmental effects against a representative spectrum of targets as one of its assignments as a member of the jmem ss methodology and evaluation working group the concepts effectiveness division of picatinny arsenal was tasked to conduct a sensitivity study to answer the following question considering the variability and uncertainties in the inputs used to compute the jmem ss effectiveness numbers for indirect fire systems how sensitive are the answers to errors in these input values this paper will describe the sensitivity analysis conducted on one of the us army s 155mm howitzer weapons author

the joint munitions effectiveness manual air to surface jmem as contains hand calculated methods for determining the number of passes and conventional munitions required to destroy a variety of surface targets operational forces from all three services make wide use of the standardized methods in this manual although computerized versions of these methods are now available a need still exists for the hand methods under the sponsorship of the jmem as steering committee the department of mathematics usaf academy produced a hand computer called the pattern bombing computer which applies to many of the weaponeering methods the pattern bombing computer and an associated instruction manual are now being printed and will be distributed to appropriate users of the jmem as manuals author

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