

## Joint Munitions Effectiveness Manual

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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 volume contains six unclassified papers out of the 25 presented at the guidance and control symposium held in geilo norway from 3 to 6 may 1988 the remainder of the papers except papers nos 11 and 26 not available at time of printing are included in the classified supplement cp 435 s the papers were presented under the following headings operational requirements and considerations guidance sensors

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