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Ballistics: Concepts and Connections with Applied Physics

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Abstract : Ballistics, a generic term, is intended for various physical applications, which deals with the properties and interactions of matter and energy, space and time. Discoveries theories and experiments provide an essential link between applied physics and ballistics problems. "Applied" is distinguished from "pure" by a subtle combination of factors such as the motivation and attitude of researchers and the nature of the relationship to the ballistics. It usually differs from ballistics in that an applied physicist may not be designing something in particular, but rather research on physical concepts and connected laws/theories with the aim of understanding or solving ballistics related problems. This approach is similar to that of ballistics, which is the name of the applied scientific field. Competence in Applied Physics and Ballistics (APAB) is important multidisciplinary research areas in armaments science. Because of their multidisciplinary nature, the APAB is inseparable from physical, mathematical, experimental and computational aspects. In this context, this paper discusses a brief review into the APAB, their important roles in the armament research. And also summarize some of the current APAB activities in academia, armament research institute and industry.

[Full Paper]