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迫击炮弹一维射程修正引信技术研究

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摘要: 研制一维弹道修正引信技术的基本目的是在不给士兵增加后勤负担的情况下, 提高迫击炮间接射击的有效性。射程修正模块作为迫击炮弹引信的一个灵巧武器, 能减小射程误差, 提高其打击毁伤效率。现代微电子、传感器和电源方面的技术进步使得用迫击炮引信进行一维射程修正成为可能。本文主要针对迫击炮弹道修正引信射程修正技术涉及的关键问题进行了初步研究, 为进一步开展设计工作奠定基础。

关键词: 引信; 射程修正; 迫击炮; 仿真

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参考文献:

1 Michacl S L.Preliminary design of a range correction module for an artillery shell.AD-A305195,1996.

2 Condon J A.Dynamic analyses of the mortar dragster tab mechanism.ARL-TN-107,1998.

3 Michacl S L.Design and analysis of a prototype yange correction decice for a mortar projectile.ARL-MR-411,1998.

ONE-DIMENSIONAL RANGE-CORRECTION MODULE FOR A MORTAR FUZE

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Abstract: The primary purpose of a study on the range correction device in fuzes is to improve the effectiveness of indirect fire from the infantry mortar without increasing the logistice burden on soldiers. The objective of a range correction device is to provide a smart munition capable of reducing range error, thus increasing the destruction probability.advances in microelectronics, sensors, and power supplies have made it possible to produce a miniature, one-dimensional range-correction device for the mortar. The key problems involved in the range correction device in the mortar fuze are briefly studied in the paper, wishing to form a basis for further study in design work.

Key Words: fuze, range correction, mortar, simulation

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