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一种用于制导炸弹投放的新型引导瞄准方法(PDF)

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Title: An Advanced Leading and Aiming Method Used for Guided Bomb Delivery

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关键词: [制导炸弹](#); [引导瞄准方法](#); [投弹精度](#); [载机安全性](#); [操作冗余](#)

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摘要: 针对当前作战飞机投放制导炸弹时采用的引导瞄准方法对投弹精度、载机安全性和操作冗余无法兼顾的问题,研究了一种融合了CCAR与CCRP两种投弹方式的新型引导瞄准方法。该方法将CCAR方式的投弹精度、CCRP方式的载机安全性融于一身,并显著增大了飞行员的操作冗余。通过对其平显画面各显示要素的分析,建立了该方法的数学模型并进行了仿真验证。结果表明该方法可行性强,较现有引导瞄准方法优势明显。

Abstract: According to the existing leading and aiming method used for guided bomb delivery can't give attention to all of bomb accuracy, safety of airplane and handle redundancy, an advanced leading and aiming method integrates CCAR with CCRP is studied. This method has both the bomb accuracy of CCAR and the safety of airplane of CCRP, and it increase the handle redundancy of the pilot evidently. The math model of the method is built via the analysis of display factors on the HUD menu. The simulation shows that this method has great feasibility, and it has observable advantages compared with existing leading and aiming method.

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