应用光学 2005 26 (3): 1-4 ISSN: 1002-2082 CN: 61-1171/O4

综述

高能激光武器在水面舰船上的潜在应用

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收稿日期 修回日期 网络版发布日期 2006-8-28 接受日期

摘要 分析了反舰导弹对水面舰船构成的威胁和水面舰船现役反导防御系统的局限性，结果表明，现役舰载防御手段的反导能力有限，水面舰船面临着反舰导弹的严重威胁，迫切需要寻求新的防御手段和发展新的防御武器来增强其对付这种威胁的能力。在此基础上，简要分析了高能激光武器的主要特性，并据此对高能激光武器这一新概念武器在水面舰船上的可能应用及作用进行了探讨，认为高能激光武器是一种极具潜力的近程反导防御武器，可在水面舰船的近程反导防御，甚至在为反卫星和水面舰船上提供高分辨率光学警戒支持等方面发挥重要作用。

关键词 反舰导弹 水面舰船 反导 防御 激光武器

分类号

Potential Application of High Energy Laser Weapons on Surface Ships

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Abstract The threat of antiship missile against surface ships and the limitation of antimissile defensive systems of the surface ships being in service are analysed. From the analyses,we come to the conclusion that there is a limit to antimissile ability active shipbased defensive systems,the surface ships are faced with a serious threat of antiship missile, and are in great need of new defensive means and weapons in order to enhance its antimissile ability. On the basis of the presentation mentioned above, the main characteristics of high energy laser weapons are analysed briefly, the possible application and role of high energy laser weapons on surface ship are also discussed. It theoreitically shows that high energy laser weapons are the potential short range antimissile defensive weapons, and are of an important role in the surface ships'short range antimissile defense, antisatellite and high resolution optical warning.

Key words antiship missile surface ship antimissile defense laser weapon

DOI:

通讯作者

扩展功能

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