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## 无线电引信电子对抗技术的三个层次(PDF)

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Title: Three Hierarchy of the Jamming Technology in Radio Proximity Fuze Electronic Warfare

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关键词: 无线电引信; 连续波多普勒引信; 信息; 干扰

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摘要: 对无线电引信电子对抗技术系统层面的研究可以为无线电引信干扰技术与抗干扰技术的发展提供理论依据。文中以信息论的基本观点, 在建立的无线电引信信息模型基础上, 通过对无线电引信抗干扰技术的分析, 归纳了无线电引信干扰技术的三个层次——突破电磁场保护、信号收发相关保护和信号识别保护, 由此提出了对连续波多普勒引信实施干扰的三个条件。通过实验验证了理论分析的有效性。

Abstract: The theoretical basis of developing the radio proximity fuze jamming technology and anti-jamming technology is provided by the systems-level study of electronic countermeasures technology for the radio fuze. Based on the information theory, the module of the radio proximity fuze is established. By the foundation of the module and the analysis of the anti-jamming technology, three hierarchy of the jamming technology are concluded, which are breakthrough the channel protection of electromagnetic field, the channel protection of correlation between the transmitted signal and received signal, and the protection of signal identification. According as three hierarchy of the jamming technology, three conditions must be met by the jamming signal for CW Doppler fuze. The exactness of the conclusion is verified by the outfield jamming experiments of the radio fuze.

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<a href="#">本期目录/Table of Contents</a>
<a href="#">下一篇/Next Article</a>
<a href="#">上一篇/Previous Article</a>
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