

双通道极化SAR干扰抑制

郭睿; 孙光才; 周峰; 邢孟道*

西安电子科技大学雷达信号处理国家重点实验室 西安 710071

Jamming Suppression in D-PolSAR System

Guo Rui; Sun Guang-cai; Zhou Feng; Xing Meng-dao*

National Lab of Radar Signal Processing, Xidian University, Xi'an 710071, China

摘要	参考文献	相关文章
----	------	------

Download: PDF (402KB) [HTML](#) 1KB Export: BibTeX or EndNote (RIS) [Supporting Info](#)

摘要 该文结合SAR领域的两种重要技术极化和多通道,提出了在双通道极化合成孔径雷达(D-PolSAR)系统中同时抑制压制和欺骗干扰的方法。文章首先建立了D-PolSAR系统模型,分析了在这一系统下的信号模型和干扰模型;然后分析干扰信号与真实目标信号在D-PolSAR系统下的差异,提出了基于相位补偿的双通道相消方法来同时抑制压制干扰和欺骗干扰,仿真实验证明该方法的有效性。

关键词: 双通道极化合成孔径雷达 压制干扰 欺骗干扰 双通道相消

Abstract: In the paper, making use of two key techniques in SAR domain—mutichannel SAR and PolSAR, a method to suppress both the blanketing jamming and the deceptive jamming is provided in Dual-channel PolSAR (D-PolSAR) system. First, the model of the D-PolSAR system is established, and the signal and jamming in the D-PolSAR system are analyzed; then by comparing the difference between jamming and real signal, a Two-Channel-Cancellation(TCC) method based on phase compensation is proposed to suppress these two types of jamming. The simulation results validate the effectiveness of proposed method.

Keywords: Dual-channel-PolSAR(D-PolSAR) Blanketing jamming Deceptive jamming Two-Channel- Cancellation (TCC)

Received 2009-06-09;

通讯作者: 郭睿

引用本文:
郭睿; 孙光才; 周峰; 邢孟道.双通道极化SAR干扰抑制[J] 电子与信息学报, 2010,V32(6): 1343-1349

Guo Rui; Sun Guang-cai; Zhou Feng; Xing Meng-dao.Jamming Suppression in D-PolSAR System[J] , 2010,V32(6): 1343-1349

链接本文:

<http://jeit.ie.ac.cn/CN/10.3724/SP.J.1146.2009.00860> 或 <http://jeit.ie.ac.cn/CN/Y2010/V32/I6/1343>

Service

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [Email Alert](#)
- ▶ [RSS](#)

作者相关文章

- ▶ [郭睿](#)
- ▶ [孙光才](#)
- ▶ [周峰](#)
- ▶ [邢孟道](#)
- ▶
- ▶
- ▶
- ▶