



多基站ISAR三维转动转台目标成像研究

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Multi-static ISAR Three-Dimension Turntable Imaging and Simulation

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摘要

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摘要 该文建立了多基站ISAR 3维转动转台目标的成像模型和成像算法,同时分析了多基站ISAR 3维转动转台目标的成像约束。通过在多基站ISAR 3维转动转台目标成像模型的基础上构造多基站距离向投影方程组和方位向多普勒方程组,实现了同时对目标散射点位置参数和运动参数的估计。仿真实验验证了多基站ISAR平面转台模型成像算法。

关键词: ISAR 多基站 3维转动 成像

Abstract: In this paper, the multi-static ISAR three-dimension turntable model and imaging algorithm are proposed. Furthermore, the multi-static ISAR three-dimension turntable imaging constraints are analyzed. Based on the range projection equations and azimuth doppler equations deduced by multi-static ISAR three-dimension turntable model, the positions and movement parameters of target scattering points are obtained. The multi-static ISAR three-dimension turntable model and imaging method are verified with simulation experiments.

Keywords: ISAR Multi-static Three-dimensional rotation Imaging

Received 2009-06-23;

通讯作者: 云日升

引用本文:

云日升.多基站ISAR三维转动转台目标成像研究[J] 电子与信息学报, 2010,V32(7): 1692-1696

Yun Ri-sheng.Multi-static ISAR Three-Dimension Turntable Imaging and Simulation[J] , 2010,V32(7): 1692-1696

链接本文:

<http://jeit.ie.ac.cn/CN/10.3724/SP.J.1146.2009.00905> 或 <http://jeit.ie.ac.cn/CN/Y2010/V32/I7/1692>

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