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论文

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同时距离对准和相位补偿

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SIMULTANEOUS RANGE REALIGNMENT AND PHASE COMPENSATION

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摘要

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摘要 在 ISAR 距离对准频域法的基础上, 提出了一种新的 ISAR 运动补偿法。它将距离对准和相位补偿同时进行, 因而能够简化运动补偿环节, 减少运动补偿计算量。从理论上证明了所采用的相位补偿法与多普勒中心跟踪法是等效的。最后利用 ISAR 外场实测数据和微波暗室数据进行了验证, 并且考察了所述方法的噪声性能。

关键词:

Abstract: A new motion compensation approach of ISAR is developed based on the frequency domain method of range realignment which is able to perform range realignment and phase compensation simultaneously. Consequently, the proposed approach can reduce the complexity and computational load of motion compensation of ISAR. It is proved that the scheme of phase compensation is virtually equivalent to the track Doppler centroid method. The proposed approach is used to process the live data of ISAR and the real data of microwave anechoic chamber. The results show that the proposed approach is correct and effective.

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