

Principles of space-time adaptive processing

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Abstrak

This third edition provides a detailed introduction to the fundamentals of space-time adaptive processing, with emphasis on clutter suppression in airborne or space based phased array radar, covering specifically the principles of airborne or space based MTI radar for detection of slow moving targets for use in the fields of earth observation, surveillance and reconnaissance, with special attention paid to clutter rejection techniques.

The book includes topics such as signal processing, clutter models, array processing, bandwidth effects, non-linear antenna arrays, anti-jamming techniques, adaptive monopulse, bistatic radar configurations, SAR and ISAR, and sonar. After the success of the first and second editions, this third edition has been extensively updated and extended to reflect the numerous advances in the field. A completely new chapter has been added on the impact of the radar range equation, which is of particular importance for radar system designers.