



Sea Clutter: Scattering, the K Distribution and Radar Performance (Iet Radar, Sonar, and Navigation)

Keith Ward, Robert Tough, Simon Watts

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The second edition of *Sea Clutter: Scattering, the K Distribution and Radar Performance* gives an authoritative account of our current understanding of radar sea clutter.

Topics covered include the characteristics of radar sea clutter, modelling radar scattering by the ocean surface, statistical models of sea clutter, the simulation of clutter and other random processes, detection of small targets in sea clutter, imaging ocean surface features, radar detection performance calculations, CFAR detection, and the specification and measurement of radar performance. The calculation of the performance of practical radar systems is presented in sufficient detail for the reader to be able to tackle related problems with confidence.

For this fully revised and updated second edition new material has been added on the Doppler characteristics of sea clutter and associated detection processing methods, bistatic sea clutter measurements; electromagnetic scattering theory of littoral sea clutter and bistatic sea clutter; the use of models for predicting radar performance, including discussion of Lognormal and Weibull models; further results and extended discussion on the modelling of the K distribution shape parameter for different conditions; the simulation of Doppler spectra of sea clutter; high grazing angle scattering; and the use of the K distribution in other fields. The material has been reorganized into four parts: Sea Clutter Properties, Mathematics of the K distribution, Radar Detection and Physical Modelling. This reorganization allows readers to access specific areas quickly, without the need for an extensive knowledge of the other parts.

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