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In this book, various antennae in plasmas, particle beam antennae, phase, group and ray velocity surfaces of various plasma modes, RF ray trajectories and wave fronts in inhomogeneous anisotropic plasmas, plasma waveguides, radiations in ion beams and plasma streams, and useful kinetic plasma dielectric tensors are illustrated with many interesting new phenomena in anisotropic plasmas. Many theoretical and experimental results are demonstrated with clearly understandable figures. In addition to these fields, properties of superconducting plasmas are presented. Results from radiation phenomena in various schemes are shown and they can be applied in fields such as space (plasma) sciences, artificial satellites in space, RF hearings of plasmas, and advanced processing plasmas. Fundamental anisotropic phenomena in anisotropic plasmas are also expected to be applicable in other anisotropic media such as anisotropic optical fibres.