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Godara, Journal Articles N. Rojas, , ""Low-loss polynomial White cell optical true-time delay engine for wideband radio frequency array beam steering". Rojas, , ""Nonreciprocity in circular magnetoplasma-filled waveguides above the cyclotron frequency". Rojas, , ""The RCS of a cylindrical array antenna coated with a dielectric layer". Rojas, , ""High-frequency approximation for mutual coupling calculations between apertures on a perfect electric conductor circular cylinder covered with a dielectric layer: Rojas, , ""Uniform asymptotic solution for the radiation from a magnetic source on a large dielectric coated circular cylinder: Antennas and Propagation 50, - Rojas, , ""Efficient computation of surface fields excited on a dielectric coated circular cylinder". Rojas, , ""Fast analysis of electromagnetic scattering from finite strip gratings on a grounded dielectric slab". Rojas, , ""EM plane wave diffraction by a material coated perfectly conducting half-plane - oblique incidence". Rojas, , ""Electromagnetic field excited by a line source placed at the edge of an impedance wedge". Antennas and Propagation AP, - Antennas and Propagation AP, no. Presentations ""Research in Antenna Technology". Rojas ""Design of Multiband Reconfigurable Antennas". Park ""Negative input resistance and real-time active load-pull measurements of a 2. Rojas ""Free space coupling properties of large mode area Photonic Crystal Fibers". Rojas ""Design and analysis of passive nonreciprocal devices in millimeter and sub-millimeter wavelengths". Rojas ""Scattering from a cylindrical array antenna coated with a dielectric layer". Rojas ""Active Integrated Phased Array". Rojas ""Mutual coupling between microstrip line fed printed antennas on large coated cylinder". Rojas ""Paraxial space-domain formulation for surface fields on large dielectric coated circular cylinder". Rojas ""Novel scheme for design of adaptive printed antenna elements". Rojas ""Fast solution of EM scattering by large finite array of strips on a grounded dielectric slab". Rojas ""Efficient computation of surface fields excited on a dielectric coated circular cylinder". Rojas ""Study of Novel adaptive printed antenna element using surface waves". Rojas ""A novel adaptive antenna element for GPS applications". Rojas ""New PCB substrate used for patch antenna fabrication".

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In this paper, the inverse circular polarization ratio is used to investigate the thickness sensitivity of the anisotropic slab linearly polarized LP to circularly polarized CP polarizer. For the slab polarizer. We define a thickness sensitivity based on a specified axial ratio, e. Usually only one sense is interested for a particular application, e. When the inverse circular polarization ratio is used, the RH wave will reside completely within the unit circle and the derivation becomes simpler. One example of the biaxial slab is studied. Introduction An anisotropic slab can change the polarization state of the wave. The resulting polarization state, in particular, the axial ratio, depends on the slab thickness. The perfect CP wave can only be obtained under a suitable slab thickness for an operating frequency. We study the thickness sensitivity of the anisotropic slab for LP to CP polarizers. For this reason, a thickness sensitivity based on AR can be defined. A given AR will thus correspond to the thickness sensitivity. The inverse circular polarization ratio q has been employed to represent the polarization state [I]. On the q plane, the change of polarization loci as the wave propagates is shown to be a circle [2]. The contours of constant axial ratio are concentric circles in the q plane [I]. When combined with the graphical description of the change in the polarization state, the thickness sensitivity from LP to a desired CP wave can be obtained easily. The formulation is described in Section 2. Formulation Consider a uniform plane wave incident normally to the lossless anisotropic slab with thickness d. Under the small reflection approximation, i. The definition of R, , 0 , r , and 0 were given in [3]. In the q plane, it is shown that the polarization locus for a given AR leads to a circle centered at the origin, known as an AR circle. The thickness sensitivity can be determined from the relations between the 9 circle and the AR circle for a given acceptable AR in the q plane. As an example, Figure 1 shows three circles, including an AR circle, a q circle, and a unit circle. The polarization locus inside i. To simplify the investigation, the following assumptions are made: The incident polarization state is at the point s , an LP wave. In Figure I , the q circle and the AR circle intersect at the two points U and L , while the q circle and the real axis intersect at the point g. On the q circle, the polarization locus at the point g has the smallest AR. Denote LLWU as 2 0 , which will be shown to be related to the thickness sensitivity for an acceptable axial ratio. From I , the relation between z , the radius p , and the coordinates of the center W of the 9 circle can be written as where B , as shown in the figure, specifies a point on the 9 circle, corresponding to a particular thickness. The argument of z , which we call z,. If the required thickness sensitivity is less than the maximum thickness sensitivity, the range of the allowable tilt angle r can be found from Figure 2. Conclusions In this paper, we demonstrate that the thickness sensitivity of the anisotropic slab LP to CP polarizer based on a specified axial ratio. For the biaxial slab, we determine the suitable parameters that can give the maximum thickness sensitivity. In our discussion, the tolerance of the thickness of the slab is determined when we fix the operating frequency of the incident wave. For a non- dispersive anisotropic medium we can instead fix the slab thickness to study the transformation bandwidth of the CP polarizer. Illustration of finding the Figure 2. The thickness sensitivity ST, thickness sensitivity of the anisotropic solid line and the fundamental slab CP polarizer. Acknowledgements This work is partially supported by grants from the National Science Council, Taiwan. References [11 H. Matt, Antennas for Radar and Communiccztions: Lin, "Representation of the polarization loci in the inverse circular polarization ratio plane of a wave propagating in several anisotropic media," IEEE AP Symposium.

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