INTENSITY AND POLARIZATION TRANSFORMATIONS IN COHERENT VECTOR FIELDS

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S u m m a r y

The features of the optical fields with stationary intensity and polarization, which are the coherent superposition of coherent, randomly polarized beams, have been examined. The relations, which allow the polarization state in the plane of analysis to be determined on the basis of its values in the general plane oriented normally to the Umov—Poynting vector, have been derived. The conditions for the summary uniform intensity field to be formed from the partial beams with various amplitudes and polarizations are given.