Abstracts

Mode Orthogonality in Chirowaveguides

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In this paper, we derive the orthogonality relations for modes supported by a general cylindrical chirowaveguide. As introduced in our earlier worth a chirowaveguide is a cylindrical waveguide filled with chiral or optically active materials. As in conventional waveguides, the orthogonality relations reported here can be used to expand an arbitrary E or H field within a chirowaveguide in terms of a complete set of mutually orthogonal modes in the waveguide.

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