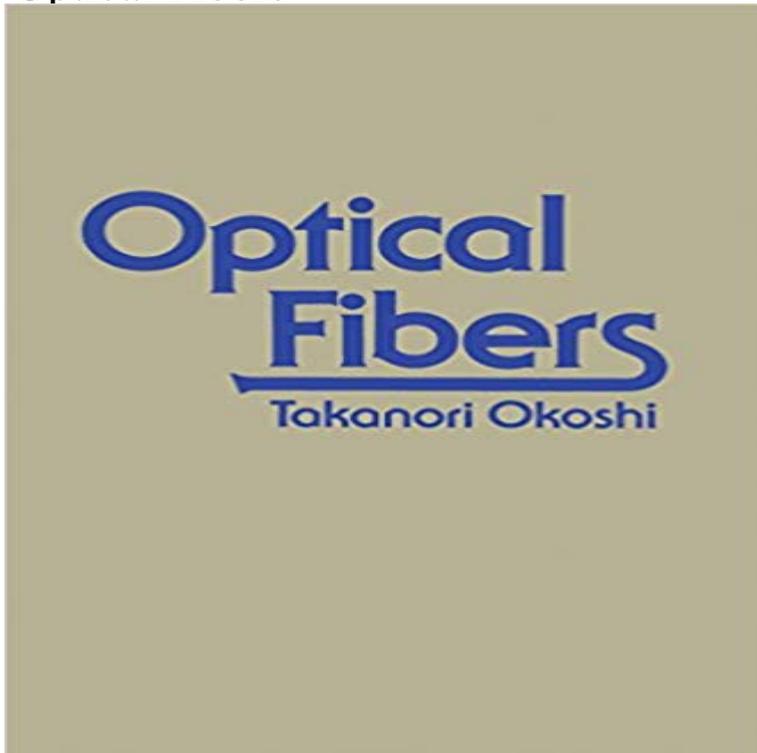


Optical Fibers



Optical Fibers describes the theoretical basiselectromagnetic theoriesof transmission characteristics of optical fibers. The material and fabrication technologies are not described systematically, but only briefly where necessary to assist comprehension of the transmission characteristics. This book comprises 11 chapters, with an introductory chapter that discusses such topics as optical communications before the advent of optical fibers, a technical background of the subject matter, and a summary of its history. Succeeding chapters then discuss basic concepts and equations; ray theory of optical fibers; wave theory of uniform-core fibers; wave theory of nonuniform-core fibers; and classification and comparison of various analysis methods. Other chapters cover optimum refractive-index profile of optical fibers; optical fibers having structural fluctuations; measurement of refractive-index profile of optical fibers; measurement of transmission characteristics of optical fibers; and finally, some concluding remarks. This book will be of interest to practitioners in the fields of electronic engineering and electrical communications.

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