

Introduction to Integrated Optics



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Book Condition: New. Publisher/Verlag: Springer, Berlin | The material presented in this volume is based on a series of lectures presented at an annual short course entitled "Integrated Optics" sponsored by the University of California, Santa Barbara, in March of 1973. Each chapter has been authored by the individual lecturing on the particular subject matter contained in that chapter. The primary intent of this book is to provide the students with a written version of the lecture material. The text treats a large variety of the basic structures and analysis techniques currently being employed in the rapidly growing area of technology termed "Integrated Optics." The volume contains both material that has previously been published in scientific journals and material which has not been published elsewhere. Since the field of integrated optics is in a stage of rapid expansion, a complete coverage of all the experimental results is difficult. As a result the emphasis is placed on the fundamental theoretical ideas and experimental results. The editor gratefully acknowledges the contributing authors and the institutions with which they are associated for their wholehearted cooperation in the preparation of this book. Particular thanks are extended to the Hughes Research Laboratories, a division of the Hughes Aircraft Company. | 1 General Background Review.- 1. Maxwell's Equations.- 2. Definitions of Various Types of Medium.- 3. Wave Equation.- 4. Description of Other Material Parameters.- 5. Boundary Conditions.- 6. Fresnel Equations.- 7. Special Examples.- 8. Separation of Longitudinal and Transverse Coordinates.- 9. Definition of Various Types of Modes.- 2 Film-Waveguides and Zig Zag Waves.- I. An Introduction of Film-Waveguides-Zig Zag Waves.- (i) Dual Concept of Ray and Wave Optics.- (ii) The A and B Waves.- (iii) Electric and Magnetic Field.- (iv) Waveguide Modes and the Total Reflection Phenomenon.- (v) Field Distribution of...



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