



Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics

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Preface

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PREFACE

Recently, nonlinear optical materials have started to attract the attention of many scientists in the fields not only of quantum electronics, but also of physical chemistry, synthetic chemistry, and solid state physics, especially semiconductor physics. The interdisciplinary nature of this field requires an understanding from different viewpoints so that research activity can advance.

A symposium entitled *Organic and Polymer Materials for Nonlinear Optics* was held 23–25 January 1989 in Fujiyoshida, Yamanashi Prefecture, Japan. The symposium was divided into five sessions: Design and synthesis of nonlinear organic materials; Mechanism and theory of nonlinear optical processes; Control of materials for devices; Development of measurement and specification of nonlinear materials; and Research for possible applications to devices. From the papers presented at the symposium, 11 have been selected to appear in this special issue together with 5 contributed papers. This special issue contains many papers written by scientists active in the field of nonlinear optics of organic materials. This collection presents an overview of the state of development of the field at present.

To edit the special issue, Professor Shunsuke Kobayashi of the Tokyo University of Agriculture and Engineering made many suggestions and helped in the editing process. Professor A. Garito of the University of Pennsylvania gave much good advice on the editing of the special issue. I would like to express deep thanks to them.

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