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Publication details, including instructions for authors and subscription information:

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Localized Modes in Optics of Chiral Liquid Crystals

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To cite this article: V. A. Belyakov (2015) Localized Modes in Optics of Chiral Liquid Crystals, *Molecular Crystals and Liquid Crystals*, 612:1, 81-97, DOI: [10.1080/15421406.2015.1030577](https://doi.org/10.1080/15421406.2015.1030577)

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Diffraction Optics of Complex-Structured Periodic Media Vladimir Belyakov, 2019-08-02 This book presents recent theoretical and experimental results of localized optical modes and low threshold lasing in spiral photonic media Efficient applications of localized modes for low threshold lasing at the frequencies of localized modes are a central topic of the book's new chapters Attention is paid to the analytical approach to the problem The book focuses on one of the most extensively studied media in this field cholesteric liquid crystals The chosen model in the absence of dielectric interfaces allows to remove the problem of polarization mixing at surfaces layers and defect structures It allows to reduce the corresponding equations to the equations for light of diffracting polarization only The problem concentrates then on the edge and defect optical modes The possibility to reduce the lasing threshold due to an anomalously strong absorption effect is presented theoretically for distributed feedback lasing It is shown that a minimum of the threshold pumping wave intensity can be reached for the pumping wave frequency coinciding with the localized mode frequency what can be reached for a pumping wave propagating at a certain angle to the helical axes Analytic expressions for transmission and reflection coefficients are presented In the present second edition experimental observations of theoretically revealed phenomena in spiral photonic media are discussed The main results obtained for spiral media are qualitatively valid for photonic crystals of any nature and therefore may be applied as a guide to investigations of other photonic crystals where the corresponding theory is more complicated and demands a numerical approach It is demonstrated that many optical phenomena occurring at the frequencies of localized modes reveal unusual properties which can be used for efficient applications of the corresponding phenomena efficient frequency conversion and low threshold lasing e g For the convenience of the reader an introduction is given to conventional linear and nonlinear optics of structured periodic media This book is valuable to researchers postgraduate and graduate students active in theoretical and experimental physics in the field of interaction of radiation with condensed matter

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Liquid Crystals Irina Carlescu, 2019-01-03 Liquid Crystals Self Organized Soft Functional

Materials for Advanced Applications is focused on both theoretical models and experimental results pointing out the chemical and physical properties thermodynamics electro optic switching behavior and non linear optic phenomena of liquid crystals used in a wide range of devices In this respect the chapters cover the following topics chemical structure and phase transitions in bent core liquid crystals phase and structural behavior of liquid crystals used to align carbon nanotubes molecular alignment and photorefractive effect in the ferroelectric phase which has the potential to be used as transistors for image storage and in optical signal processing It is expected that the book will be of interest to researchers in academia and industries as well as advanced students

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Physics, Uspekhi, 2005

Liquid Crystals Pankaj Kumar Choudhury, 2018-02-28 Liquid crystals exhibit amazingly interesting properties that make them indispensable for several technological applications The book *Liquid Crystals Recent Advancements in Fundamental and Device Technologies* is aimed to focus on various aspects of research and development that liquid crystal mediums have come across in recent years This would be ranging from the physical and chemical properties to the important applications that the liquid crystals have in our everyday life It is expected that the book will

make the expert researchers to be abreast of recent research advancements whereas the novice researchers will benefit from both the conceptual understanding and the recent developments in the area. Multitudes of research themes and directions pivoted to liquid crystals remain the essence which the readers would get the glimpse of and move ahead for further investigations. Liquid Crystals : Optics and Applications Tomasz R. Woliński, Marc Warenghem, Shin-Tson Wu, 2005

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