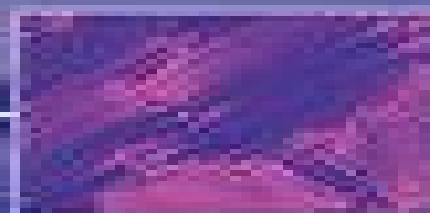
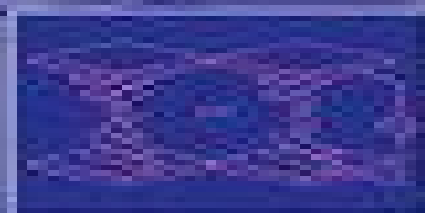


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Masaki Hasegawa
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Nobuyuki Itoh
Ryu Hasegawa
Masamori Sakamoto



CRC Press
Taylor & Francis Group

Hardcover: 160 pages, 2008

Alignment Technologies And Applications Of Liquid Crystal Devices

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Covering numerous practical applications as yet not covered in any single source of information this monograph discusses the importance of viscous and elastic properties for applications in both display and non display technologies The very well known authors are major players in this field of research and pay special attention here to the use of liquid crystals in fiber optic devices as applied in telecommunication circuits *High Quality Liquid Crystal Displays and Smart Devices* Shoichi Ishihara, Shunsuke Kobayashi, Yasuhiro Ukai, 2019 LCDs are today the most important flat panel display and their development shows no sign of slow down This book aims to describe the trends challenges and potential solutions of this exciting technology to young scientists and engineers working on liquid crystal displays and in its numerous related fields The book targets not only liquid crystal experts but also newcomers The extensive list of references and a discussion of the latest developments and challenges serve this aim Many recent state of the art technologies are introduced in this book Special emphasis is put on display quality such as image sticking contrast ratio and colour hue which have not been sufficiently dealt with in other books Moreover future trends and applications of liquid crystals materials and LC devices following historical development and how they affect society are discussed Of particular interest emerging applications such as gas sensors and smart windows are covered **Smart Mini-Cameras** Tigran V. Galstian, 2013-09-24 Achieve the Best Camera Design Up to Date Information on MCMs Miniature camera modules MCMs such as webcams have rapidly become ubiquitous in our day to day devices from mobile phones to interactive TV systems MCMs or smart cameras can zoom adjust their frame rate automatically with illumination change focus at different distances compensate for hand shake and transform captured images With contributions from academics and field engineers Smart Mini Cameras discusses the structure operation principles applications and future trends of miniature mobile cameras It compares this technology with

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Photoalignment of Liquid Crystalline Materials Vladimir G. Chigrinov,Vladimir M. Kozenkov,Hoi-Sing Kwok,2008-09-15 Photoalignment possesses significant advantages in comparison with the usual rubbing treatment of the substrates of liquid crystal display LCD cells as it is a non contact method with a high resolution A new technique recently pioneered by the authors of this book namely the photo induced diffusion reorientation of azodyes does not involve any photochemical or structural transformations of the molecules This results in photoaligning films which are robust and possess good aligning properties making them particularly suitable for the new generation of liquid crystal devices Photoalignment of Liquid Crystalline Materials covers state of the art techniques and key applications as well as the authors own diffusion model for photoalignment The book aims to stimulate new research and development in the field of liquid crystalline photoalignment and in so doing enable the technology to be used in large scale LCD production Key features Provides a full examination of the mechanisms of photoalignment Examines the properties of liquid crystals during photoalignment with particular reference made to the effect on their chemical structure and stability Considers the most useful photosensitive materials and preparation procedures suitable for liquid crystalline photoalignment Presents several methods for photoalignment of liquid crystals Compares various applications of photoalignment technology for in cell patterned polarizers and phase retarders transfective and micro displays security and other liquid crystal devices Through its interdisciplinary approach this book is aimed at a wide range of practising electrical engineers optical engineers display technologists materials scientists physicists and chemists working on the development of liquid crystal devices It will also appeal to researchers and graduate students taking courses on liquid crystals or display technologies The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest

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