

1. Record Nr.	UNINA9910777367303321
Autore	Nelson Stephen L. <1959->
Titolo	Ask the expert guide to Microsoft Money 2001 [[electronic resource] /] / Stephen L. Nelson, David B. Maguiness
Pubbl/distr/stampa	Redmond, Wash., : Redmond Technology Press, c2000
Descrizione fisica	xviii, 252 p. : ill
Altri autori (Persone)	MaguinessDavid
Disciplina	332.024/00285/5369
Soggetti	Finance, Personal - Computer programs Investments - Computer programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.

2. Record Nr.	UNINA9910821955203321
Autore	Yang Deng-Ke
Titolo	Fundamentals of liquid crystal devices / / Deng-Ke Yang and Shin-Tson Wu
Pubbl/distr/stampa	Chichester, England : , : Wiley, , 2015 ©2015
ISBN	1-118-75198-1 1-118-75199-X 1-118-75195-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (591 p.)
Collana	Wiley Series in Display Technology
Classificazione	TEC008000
Disciplina	621.3815/422
Soggetti	Liquid crystal displays Liquid crystal devices Liquid crystals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Fundamentals of Liquid Crystal Devices; Copyright; Contents; Series Editor s Foreword; Preface to the First Edition; Preface to the Second Edition; Chapter 1 Liquid Crystal Physics; 1.1 Introduction; 1.2 Thermodynamics and Statistical Physics; 1.2.1 Thermodynamic laws; 1.2.2 Boltzmann Distribution; 1.2.3 Thermodynamic quantities; 1.2.4 Criteria for thermodynamical equilibrium; 1.3 Orientational Order; 1.3.1 Orientational order parameter; 1.3.2 Landau-de Gennes theory of orientational order in nematic phase; 1.3.3 Maier-Saupe theory; 1.4 Elastic Properties of Liquid Crystals 1.4.1 Elastic properties of nematic liquid crystals1.4.2 Elastic properties of cholesteric liquid crystals; 1.4.3 Elastic properties of smectic liquid crystals; 1.5 Response of Liquid Crystals to Electromagnetic Fields; 1.5.1 Magnetic susceptibility; 1.5.2 Dielectric permittivity and refractive index; 1.6 Anchoring Effects of Nematic Liquid Crystal at Surfaces; 1.6.1 Anchoring energy; 1.6.2 Alignment layers; 1.7 Liquid crystal director elastic deformation; 1.7.1 Elastic deformation and disclination; 1.7.2 Escape of liquid crystal director in disclinations; Homework

Problems; References

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2.4.3 Lasing in cholesteric liquid crystalsHomework Problems;

References; Chapter 3 Optical Modeling Methods; 3.1 Jones Matrix Method; 3.1.1 Jones vector; 3.1.2 Jones matrix; 3.1.3 Jones matrix of non-uniform birefringent film; 3.1.4 Optical properties of twisted nematic; 3.2 Mueller Matrix Method; 3.2.1 Partially polarized and unpolarized light; 3.2.2 Measurement of the Stokes parameters; 3.2.3 The Mueller matrix; 3.2.4 Poincare sphere; 3.2.5 Evolution of the polarization states on the Poincare sphere; 3.2.6 Mueller matrix of twisted nematic liquid crystals

3.2.7 Mueller matrix of non-uniform birefringence film3.3 Berreman 4x4 Method; Homework Problems; References; Chapter 4 Effects of Electric Field on Liquid Crystals; 4.1 Dielectric Interaction; 4.1.1 Reorientation under dielectric interaction; 4.1.2 Field-induced orientational order; 4.2 Flexoelectric Effect; 4.2.1 Flexoelectric effect in nematic liquid crystals; 4.2.2 Flexoelectric effect in cholesteric liquid crystals; 4.3 Ferroelectric Liquid Crystal; 4.3.1 Symmetry and polarization; 4.3.2 Tilt angle and polarization; 4.3.3 Surface stabilized ferroelectric liquid crystals

4.3.4 Electroclinic effect in chiral smectic liquid crystal

Sommario/riassunto

"Revised throughout to cover the latest developments in the fast moving area of display technology, this 2nd edition of Fundamentals of Liquid Crystal Devices, will continue to be a valuable resource for those wishing to understand the operation of liquid crystal displays.

Significant updates include new material on display components, 3D LCDs and blue-phase displays which is one of the most promising new technologies within the field of displays and it is expected that this new LC-technology will reduce the response time and the number of optical components of LC-modules. Prof. Yang is a pioneer of blue-phase display technology and Prof. Wu has made significant contributions to the continuing advancement of the technology, and so are both undeniably well placed to offer an overview of this state-of-the-art technology"--

"Explains the link between fundamental scientific principles to the technological state-of-the-art"--
