

# Introduction To Liquid Crystals: Chemistry And Physics

**Peter J. Collings Michael Hird**

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Miller Chemical Physics Letters 2014 614, 62-66 Introduction to Liquid Crystals: Chemistry and Physics - Google Books De Gennes P G and Prost J 1993 Physics of Liquid Crystals 2nd edn Oxford. Collings P J and Hird M 1997 Introduction to Liquid Crystals: Chemistry and Introduction to liquid crystals chemistry and physics by Peter J. A material is defined as a crystalline solid when the structure has long-range order of the molecular positions in three dimensions. A fully ordered crystal will also CHAPTER 1 Introduction to liquid crystals chemistry and physics. Type: Book Authors: Peter J. Collings, Michael Hird Date: 1997 Publisher: Taylor & Francis Pub place Liquid crystals: a new topic in physics for undergraduates - IOPscience Liquid crystals LCs are matter in a state which has properties between those of conventional. 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