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Altri autori (Persone)	DemusDietrich
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Physical Properties of Liquid Crystals; Contents; Chapter I: Introduction and Historical Development; 1 Introduction; 2 The Early Years up to About 1925; 3 The Second Phase from 1925 to 1959; 4 The Third Phase from 1960 to the Present Time; 4.1 Lyotropic Liquid Crystals; 4.2 Theory; 4.3 Polymer Dispersed Liquid Crystals (PDLCs) and Anchoring; 4.4 Materials and New Phases; 5 Conclusions; 6 References; Chapter II: Guide to the Nomenclature and Classification of Liquid Crystals; 1 Introduction; 2 General Definitions; 3 Structural Features; 4 Polymeric Liquid Crystals 5 Notation of Thermotropic Liquid Crystalline Properties5 .1 Description of the Solid State; 5.1.1 Description of Soft Crystals; 5.2 Description of the Liquid Crystalline Phases; 5.2.1 Nematic and Chiral Nematic Phases; 5.2.2 Smectic Liquid Crystals; 5.2.3 Chiral Smectic Liquid Crystals; 5.2.4 Columnar Phases; 5.2.5 Plastic Crystals; 5.2.6 Condis Crystals; 5.2.7 Cubic; 5.2.8 Re-entrants; 5.3 Description of the

Clearing Parameters; 6 Stereochemistry; 7 References; Chapter III: Theory of the Liquid Crystalline State; 1 Continuum Theory for Liquid Crystals; 1.1 Introduction
1.2 Equilibrium Theory for Nematics
1.2.1 The Frank-Oseen Energy;
1.2.2 A Virtual Work Formulation; 1.2.3 Body Forces and Moments;
1.2.4 The Equilibrium Equations; 1.2.5 Boundary Conditions; 1.2.6 Proposed Extensions; 1.3 Equilibrium Theory for Smectic Liquid Crystals; 1.3.1 An Energy Function for SmC Liquid Crystals; 1.3.2 Equilibrium Equations; 1.4 Dynamic Theory for Nematics; 1.4.1 Balance Laws; 1.4.2 A Rate of Work Hypothesis; 1.4.3 The Viscous Stress; 1.4.4 Equations of Motion; 1.5 References; 2 Molecular Theories of Liquid Crystals; 2.1 Introduction
2.2 Microscopic Definition of the Order Parameters for Nematic and Smectic Phases
2.2.1 Uniaxial Nematic Phase; 2.2.2 Biaxial Nematic Phase; 2.2.3 Smectic A and C Phases; 2.3 Anisotropic Intermolecular Interactions in Liquid Crystals; 2.3.1 Hard-core Repulsion; 2.3.2 Electrostatic and Dispersion Interactions; 2.3.3 Model Potentials; 2.4 Molecular Theory of the Nematic Phase; 2.4.1 Mean-field Approximation and the Maier-Saupe Theory; 2.4.2 Short-range Orientational Correlations; 2.4.3 Excluded Volume Effects and the Onsager Theory; 2.4.4 Packing Effects in Thermotropic Nematics
2.4.5 The Role of Molecular Biaxiality
2.4.6 Density Functional Approach to the Statistical Theory of Liquid Crystals; 2.5 Molecular Models for Simple Smectic Phases; 2.5.1 Mean-field Theory of the Nematic-Smectic A Transition; 2.5.2 Phase Diagram of a Hard-rod Fluid; 2.5.3 The Role of Intermolecular Attraction; 2.5.4 Smectic A-Smectic C Transition; 2.6 Conclusions; 2.7 References; 3 Molecular Modelling; 3.1 Techniques of Molecular Modelling; 3.1.1 Molecular Mechanics; 3.1.2 Molecular Dynamics and Monte Carlo Simulation; 3.1.3 Quantum Mechanical Techniques
3.2 Applications of Molecular Modelling

Sommario/riassunto

This handbook is a unique compendium of knowledge on all aspects of the physics of liquid crystals. In over 500 pages it provides detailed information on the physical properties of liquid crystals as well as the recent theories and results on phase transitions, defects and textures of different types of liquid crystals. An in-depth understanding of the physical fundamentals is a prerequisite for everyone working in the field of liquid crystal research. With this book the experts as well as graduate students entering the field get all the information they need.

2. Record Nr.	UNINA9910974882703321
Autore	Mangan J. A.
Titolo	Athleticism in the Victorian and Edwardian public school : the emergence and consolidation of an educational ideology // J.A. Mangan
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Collana	Sport in the global society, , 1368-9789 ; ; no. 13 Sport in the global society, , 1368-9789
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Soggetti	Endowed public schools (Great Britain) - History - 19th century Education - Aims and objectives - Great Britain Athletics - Great Britain - History School sports - Great Britain - History Endowed public schools (Great Britain) - History - 20th century
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Note generali	First published in 1981 by the Press Syndicate of the University of Cambridge.
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Nota di contenuto	pt. 1. The growth of the ideology -- pt. 2. The forces of ideological consolidation.
Sommario/riassunto	Games obsessed the Victorian and Edwardian public schools. The obsession has become widely known as athleticism. When it appeared in 1981, this book was the first major study of the games ethos which dominated the lives of many Victorian and Edwardian public schoolboys. Written with Professor Mangan's customary panache, it has become a classic, the seminal work on the social and cultural history of modern sport.