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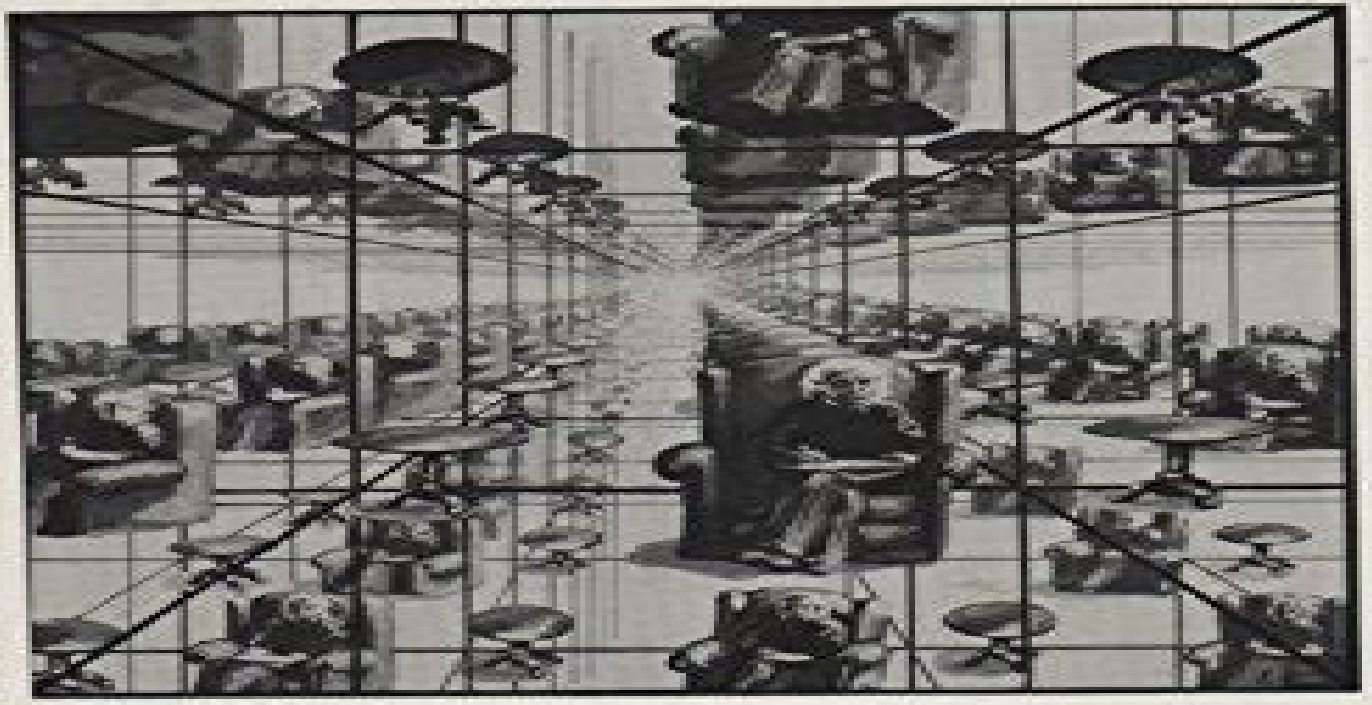

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Hyperbolic Manifolds Albert Marden,2016-02 This study of hyperbolic geometry has both pedagogy and research in mind and includes exercises and further reading for each chapter *The Shape of Space* Jeffrey R. Weeks,1985

Dissipative Ordered Fluids André M. Sonnet,Epifanio G. Virga,2012-01-24 This is a book on the dissipative dynamics of ordered fluids with a particular focus on liquid crystals It covers a whole range of different theories mainly concerned with nematic liquid crystals in both their chiral and nonchiral variants The authors begin by giving a detailed account of the molecular origins of orientational order in fluids They then go on to develop a general framework in which continuum theories for ordered fluids can be phrased Within this unified setting they cover both well established classical theories and new ones with aspects that are not yet completely settled The book treats a wide range of hydrodynamic theories for liquid crystals from the original 1960s works by Ericksen and Leslie to new fast developing ideas of liquid crystal science The final chapter is devoted to nematoacoustics and its applications Old experiments on the propagation of ultrasound waves in nematic liquid crystals are interpreted and explained in the light of a new theory developed within the general theoretical infrastructure proposed in the body of the book This book is intended both for graduate students and professional scholars in mathematics physics and engineering of advanced materials It delivers a solid framework for liquid crystal hydrodynamics and shows the unifying concepts at the basis of the classical theories It illustrates how these concepts can also be applied to a wide variety of modern topics Andre M Sonnet is in the Department of Mathematics and Statistics at the University of Strathclyde Glasgow Scotland and Epifanio G Virga is in the Department of Mathematics at the University of Pavia Italy They have a long history of working together in liquid crystal science and have contributed in particular to the theories of defects and biaxial nematics *Science Abstracts* ,1960 **Cumulated Index Medicus** ,1989 Subject Guide to Books in Print ,2001 The Shape of Space Jeffrey R. Weeks,1985 The Shape of Space brings topology to the general reader by showing how to visualize manifolds directly complements existing textbooks which often deal only in abstractions by offering a wealth of concrete examples includes the first elementary exposition of William P Thurston s revolutionary discoveries applies topology to cosmology gives the first simple pictorial exposition of the Gauss Bonnet formula builds intuition with more than 140 hands on exercises all with complete solutions and offers over 170 illustrations An annotated bibliography lists useful references for further study on specific topics **Mathematical Reviews** ,2007 **Literature 1988, Part 2** Astronomisches Rechen-Institut,2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields

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web light is a kind of wave somewhat like ocean waves or sound waves waves carry energy from one place to another but light waves don t need water or air or anything to travel they can move even in empty space unlike sound waves light waves are made of a mixture of electricity and magnetism so they are called electromagnetic waves

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web jan 15 2016 1 characteristic of all sensations and perceptions that is specific to vision 2 radiation that is considered from the point of view of its ability to excite the human visual system the cie provides two interesting notes to this formal definition of light note 1 this term has 2 meanings that should be clearly distinguished