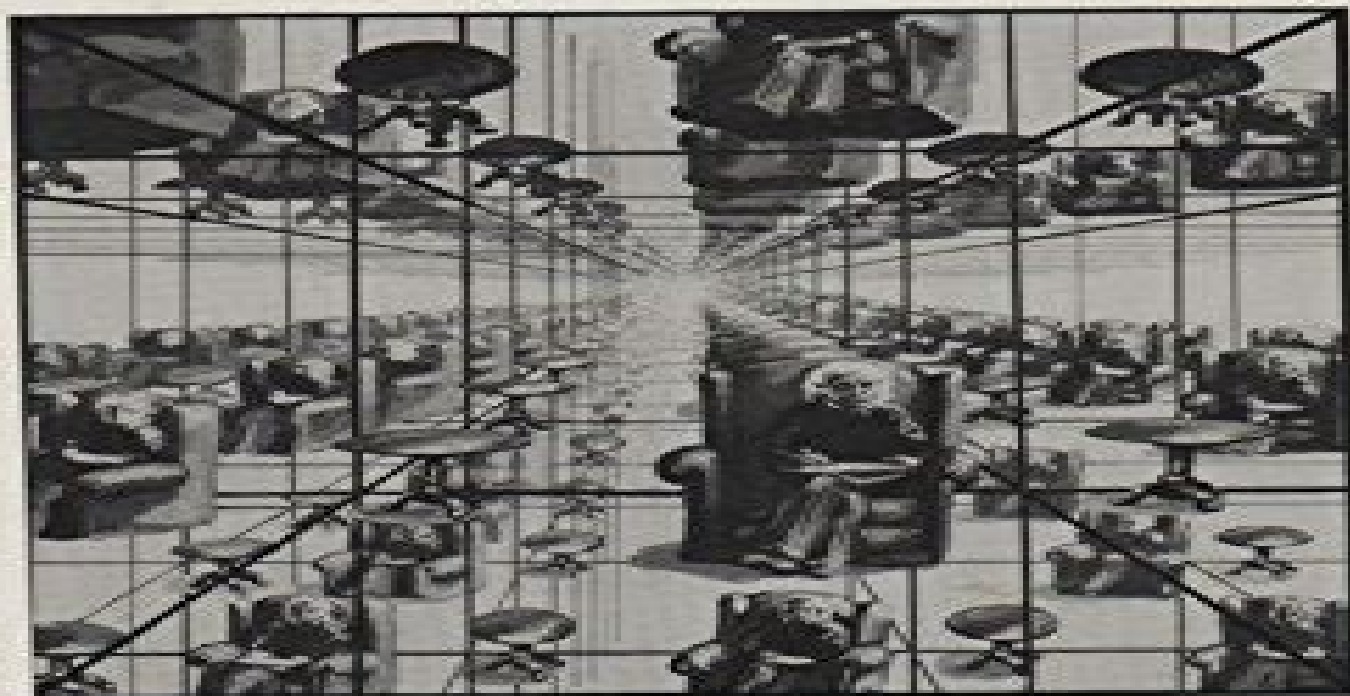


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How to Visualize Surfaces and Three-Dimensional Manifolds



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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

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references for further study on specific topics Cumulated Index Medicus ,1989 **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 of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2 International Aerospace Abstracts ,1994 *Applied Mechanics Reviews* ,1997

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