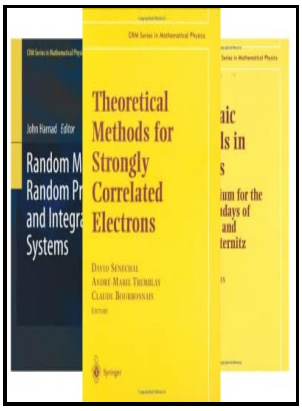
Lectures on fluid dynamics - a particle theorists view of supersymmetric, non-Abelian noncommutative fluid mechanics, and d-branes

Springer - CRM Series in Mathematical Physics Ser.: Lectures on Fluid Dynamics : A Particle Theorist's View of Supersymmetric, Non



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As the first, Jackiw chooses so called Chaplygin gas for which the pressure is negative and proportional to the inverse of the density, and as the relativistic fluid, he takes the so called Born-Infeld model, which has the property to reduce to the Chaplygin gas in the nonrelativistic limit. So, this reviewer does not see this book as a primary reading, but everyone interested in fundamentals and deep theoretical approach to fluid mechanics should become acquainted with it.

Lectures on Fluid Dynamics A Particle Theorists View of Supersymmetric NonAbelian Noncommutative Fluid Mechanics and dBranes by Jackiw & Roman

For one-dimensional cases, the models mentioned above are completely integrable, and Jackiw gives the general solution of the Chaplygin gas and the Born-Infeld model on a line, as well as a general solution of the Nambu-Goto theory for a 1-brane string in two spatial dimensions. The author's aim is to show that the apparatus, methods, language, etc. In Chapter 5, it is shown that the d-brane theory is able to produce a fluid model with nonvanishing vorticity if one starts with a super d-brane.

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Jackiw then discusses some specific models for nonrelativistic and relativistic fluid mechanics with more than one spatial dimension, including the Chaplygin gas whose negative pressure is inversely proportional to density , and the scalar Born-Infeld model.

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Precis During the March 2000 meeting of the Workshop on Strings, Du ality, and Geometry in Montreal, Canada, three lectures were delivered on topics in fluid mechanics, while the author was holder of the Aisenstadt Chair.

Lectures on Fluid Dynamics: A Particle Theorist’s View of Supersymmetric, Non

The CRM also promotes collaboration be tween mathematicians and industry.

Lectures on fluid dynamics : a particle theorist's view of supersymmetric, non

Now it may be a little heavy for that purpose, but it certainly is a fantastic reference book.

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The CRM Series in Mathematical Physics includes mono graphs, lecture notes, and proceedings based on research pur sued and on events held at the CRM. All that material has gotten a whole lot more comprehensive here in this new edition. The author's aim is to show that the apparatus, methods, language, etc.

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