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Introduction To Soft Condensed Matter Physics: PHY 5937

• Van Der Waals Interaction And Forces 1. Origin Of The Van Der Waals Interaction 2. General Theory Of Van Der Waals Forces Between Molecules. 3. Casimir Effect • Colloidal Dispersion 1. Examples Of Colloidal Particle In A Liquid: Stokes' Law ... Israelachvili, Intermolecular And Surface Forces, Academic, New York (1985). Additional ... Feb 7th, 2024

Part III - Theoretical Physics Of Soft Condensed Matter

III Soft Condensed Matter Systems Whose Microscopic Dynamics Does Not Have Time-reversal Symmetry, Such As Self-propelled Colloidal Swimmers. These Systems Do Not Have A Boltzmann Distribution In Steady State; Without That Constraint, New Old Theories Arise That Are The Subject Of Ongoing Research. Pre-requisites May 7th, 2024

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Many Existing Books On Fluid Dynamics In The Branches Treated, Reflecting To Some Extent Shifts Of Interest In Recent Years. In Particular, Geophysical And Astrophysical Applications Have Prompted Important Fundamental Developments In Topics Such As Convection, Stratified Flow, And The Dynamics Of Rotating Fluids. These Developments May 7th, 2024

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S. M. Girvin And Kun Yang C 2019 [Compiled: August 12, 2019] Note To Instructors For A Few Of The More Difficult Problems, We Include Notes To The Instructor Suggesting Simplifications, Specializations And Hints That The Instructor May Wish To Give The Students When Assigning Those Jan 5th, 2024

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D. Feng And G. Jin, Introduction To Condensed Matter Physics (I) (World Scientific, Singapore, 2005) New And With A Distinctly Modern Avor And Set Of Topics. Looks Good. N. Ashcroft And N. D. Mermin, Solid State Physics (Saunders College Press, Philadelphia, 1976) Beautifully Written, This Classic Text Is Still One Of The Best Comprehensive Guides. Mar 1th, 2024

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HOLOGRAPHIC DUALITY IN CONDENSED MATTER PHYSICS

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