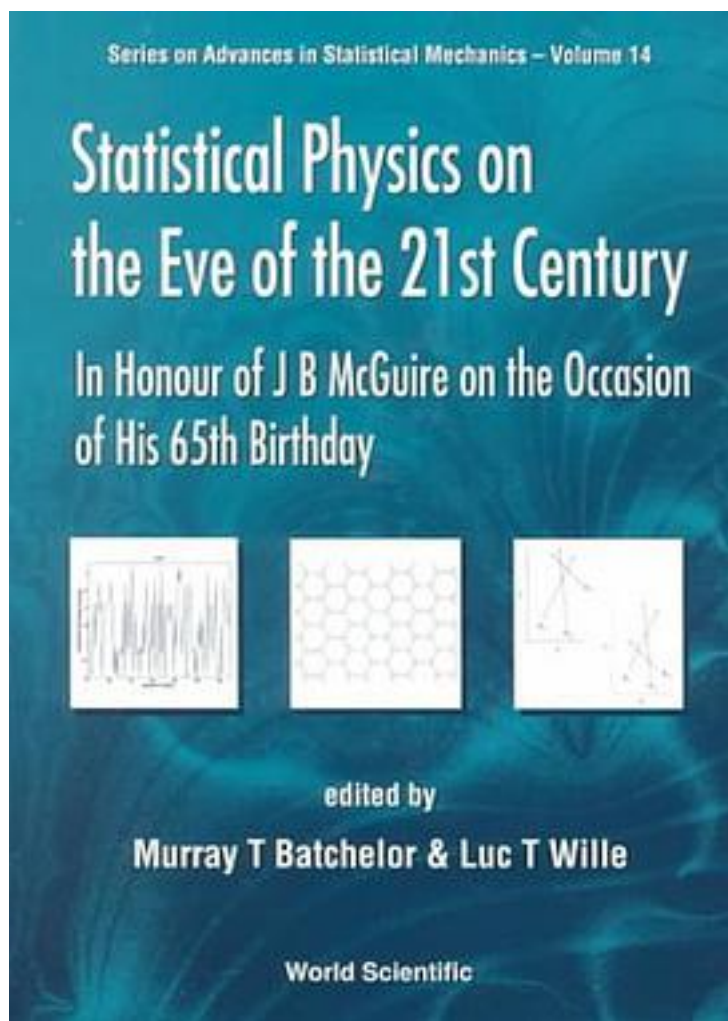


Statistical Physics on the Eve of the 21st Century



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This volume is a collection of original papers and review in honour of James McGuire,

one of the pioneers of integrable models in statistical physics. The range of articles offers a perspective on the current status of statistical mechanics, identifying both recent results as well as future challenges. The work contains a number of overviews of standard topics such as exactly solved lattice models and their various applications in statistical physics, from models of strongly correlated electrons to the conformational properties of polymer chains. The text includes coverage of new directions and developing fields including quantum computers, financial markets, chaotic systems. Feigenbaum scaling, proteins, brain behaviour, immunology, Markov superposition, Bose-Einstein condensation, random matrices, exclusion statistics, vertex operator algebras and D-unsolvability.

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