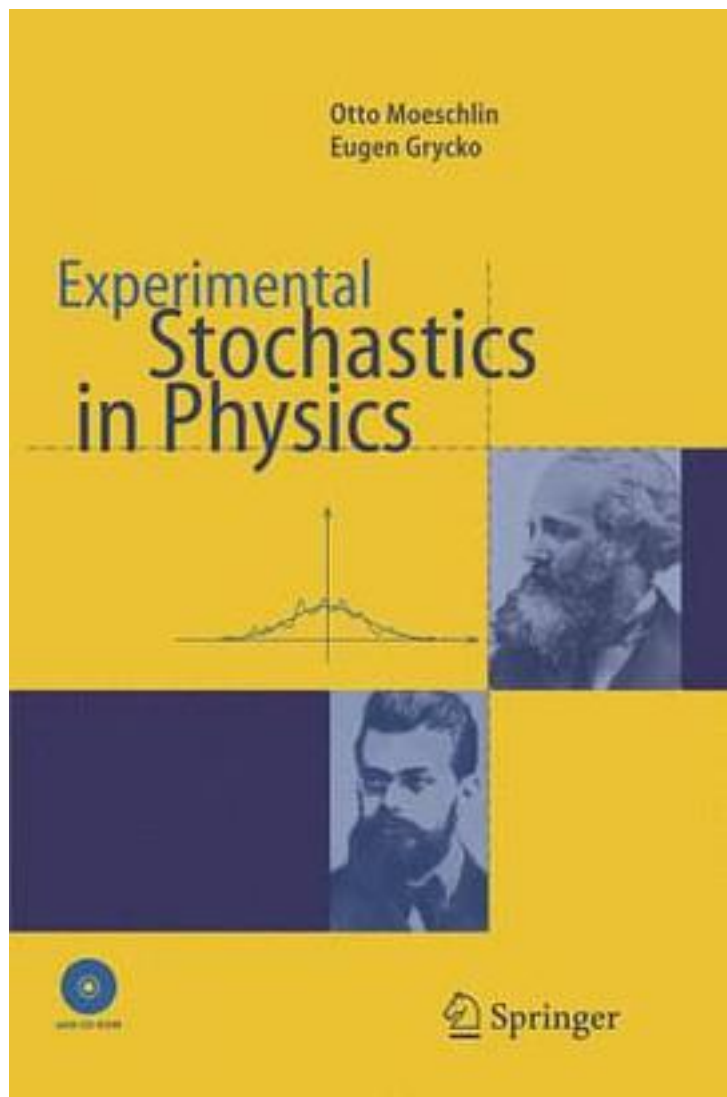# Experimental Stochastics in Physics

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The electronic monograph Experimental Stochastics (stochastical simulation) in Physics deals with random experiments on the computer from the field of molecular dynamics. Based on stochastic dynamic models of molecular movement on the computer, macro quantities of interest, such as momentum distribution, temperature, pressure, and angular velocities of fluids, are estimated statistically. The standard techniques of stochastic simulation can be found in Experimental Stochastics (2nd ed., Springer 2003). This approach yields new and unexpected insights into physical behavior which cannot be established directly by laboratory physics. The method can also be applied to non-real contexts, where certain principles of real physics are dispensed with. Although supported theoretically, the working method allows the reader to gain experimental skills on a CD-ROM.

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