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concepts. The author is Professor Dae Mann Kim from the Korea Institute for Advanced Study who has been teaching Quantum Mechanics to engineering, material science and physics students for over 25 years in USA and Asia. The publication of the first edition

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the Langevin equation or
Newtonian-like evolution equation
of the random phase space
variables describing the motion —
first formulated by Langevin in
1908 — so making him inter alia**

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the founder of the subject of stochastic differential equations, may be extended to solve the nonlinear problems arising from the Brownian motion in a potential. Such problems appear under various guises in many

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diverse applications in physics, chemistry, biology, electrical engineering, etc. However, they have been invariably treated (following the original approach of Einstein and Smoluchowski) via the Fokker–Planck equation

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for the evolution of the probability density function in phase space. Thus the more simple direct dynamical approach of Langevin which we use and extend here, has been virtually ignored as far as the Brownian

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motion in a potential is concerned. In addition two other considerations have driven us to write this new edition of The Langevin Equation. First, more than five years have elapsed since the publication of the third

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edition and following many suggestions and comments of our colleagues and other interested readers, it became increasingly evident to us that the book should be revised in order to give a better presentation of the contents. In

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particular, several chapters appearing in the third edition have been rewritten so as to provide a more direct appeal to the particular community involved and at the same time to emphasize via a synergetic

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approach how seemingly unrelated physical problems all involving random noise may be described using virtually identical mathematical methods. Secondly, in that period many new and exciting developments have

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occurred in the application of the Langevin equation to Brownian motion. Consequently, in order to accommodate all these, a very large amount of new material has been added so as to present a comprehensive overview of the

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department. Her features were very large, and so coarse and masculine was her general appearance that she would readily have passed as a man, and in her case the deception was no doubt easily practiced. Next day the "she

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dragoon " was caught, and proved to be a rather prepossessing young woman, and though necessarily bronzed and hardened by exposure, I doubt if, even with these marks of campaigning, she could have deceived as readily as

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did her companion. How the two got acquainted I never learned, and though they had joined the army independently of each other, yet an intimacy had sprung up between them long before the mishaps of the foraging

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expedition. They both were forwarded to army headquarters, and, when provided with clothing suited to their sex, sent back to Nashville, and thence beyond our lines to Louisville. On January 9, by an order from the War

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Department, the Army of the Cumberland had been divided into three corps, designated the Fourteenth, Twentieth, and Twenty-first. This order did not alter the composition of the former grand divisions, nor

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change the commanders, but the new nomenclature was a decided improvement over the clumsy designations Right Wing, Centre, and Left Wing, which were well calculated to lead to confusion sometimes. McCooks wing

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became the Twentieth Corps, and my division continued of the same organization, and held the same number as formerly--the Third Division, Twentieth Corps. My first brigade was now commanded by Brigadier-General William H.

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Lytle, the second by Colonel Bernard Laiboldt, and the third by Colonel Luther P. Bradley. On the 4th of March I was directed to move in light marching order toward Franklin and...

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University of Athens, Greece. Photo credit: The Antikythera Mechanism is the world's oldest known analog computer. It consisted of many wheels and discs that could be placed onto the mechanism for calculations. It is possible that the

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