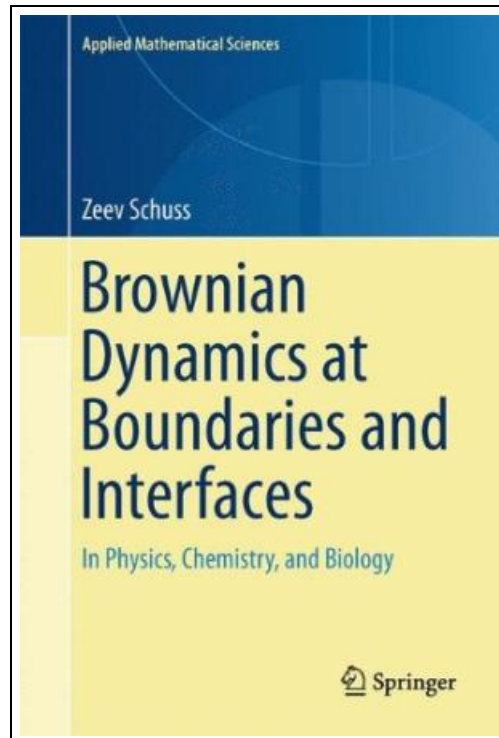


## Brownian Dynamics at Boundaries and Interfaces: In Physics, Chemistry, and Biology (Hardback)



Filesize: 4.12 MB

### **Reviews**

*Definitely one of the better publication I have got possibly read. It really is written in basic phrases and not difficult to understand. You won't sense monotony at anytime of your respective time (that's what catalogs are for about if you request me).*  
*(Darion Lowe)*

**BROWNIAN DYNAMICS AT BOUNDARIES AND INTERFACES: IN PHYSICS, CHEMISTRY, AND BIOLOGY (HARDBACK)****DOWNLOAD**

Springer-Verlag New York Inc., United States, 2013. Hardback. Condition: New. 2013 ed.. Language: English . Brand New Book. Brownian dynamics serve as mathematical models for the diffusive motion of microscopic particles of various shapes in gaseous, liquid, or solid environments. The renewed interest in Brownian dynamics is due primarily to their key role in molecular and cellular biophysics: diffusion of ions and molecules is the driver of all life. Brownian dynamics simulations are the numerical realizations of stochastic differential equations that model the functions of biological micro devices such as protein ionic channels of biological membranes, cardiac myocytes, neuronal synapses, and many more. Stochastic differential equations are ubiquitous models in computational physics, chemistry, biophysics, computer science, communications theory, mathematical finance theory, and many other disciplines. Brownian dynamics simulations of the random motion of particles, be it molecules or stock prices, give rise to mathematical problems that neither the kinetic theory of Maxwell and Boltzmann, nor Einstein s and Langevin s theories of Brownian motion could predict. This book takes the readers on a journey that starts with the rigorous definition of mathematical Brownian motion, and ends with the explicit solution of a series of complex problems that have immediate applications. It is aimed at applied mathematicians, physicists, theoretical chemists, and physiologists who are interested in modeling, analysis, and simulation of micro devices of microbiology. The book contains exercises and worked out examples throughout.

[Read Brownian Dynamics at Boundaries and Interfaces: In Physics, Chemistry, and Biology \(Hardback\) Online](#)[Download PDF Brownian Dynamics at Boundaries and Interfaces: In Physics, Chemistry, and Biology \(Hardback\)](#)

## See Also



### **Animalogy: Animal Analogies**

Sylvan Dell Publishing. Paperback. Book Condition: New. Cathy Morrison (illustrator). Paperback. 32 pages. Dimensions: 9.8in. x 8.4in. x 0.4in. Compare and contrast different animals through predictable, rhyming analogies. Find the similarities between even the most incompatible...

[Save eBook](#)

»



### **Oxford Reading Tree Treetops Time Chronicles: Level 13: the Stone of Destiny**

Oxford University Press, United Kingdom, 2014. Paperback. Book Condition: New. Mr. Alex Brychta (illustrator). 205 x 148 mm. Language: English . Brand New Book. In The Stone of Destiny the Time Runners battle to stop...

[Save eBook](#)

»



### **Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Save eBook](#)

»



### **Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso s groundbreaking and trusted guide on bullying-including cyberbullying-arms parents...

[Save eBook](#)

»



### **THE Key to My Children Series: Evan s Eyebrows Say Yes**

AUTHORHOUSE, United States, 2006. Paperback. Book Condition: New. 274 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.THE KEY TO MY CHILDREN SERIES: EVAN S EYEBROWS SAY YES is about...

[Save eBook](#)

»