



Handbook of Granular Materials

From CRC Press



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Granular systems arise in a variety of geological and industrial settings, from landslides, avalanches, and erosion to agricultural grains and pharmaceutical powders. Understanding the underlying physics that governs their behavior is the key to developing effective handling and transport mechanisms as well as appropriate environmental policies.

Handbook of Granular Materials presents foundational techniques used to investigate granular systems, examples of their use in contemporary research, and extensions to granular-like systems that greatly expand the realm of study. The book provides guidance on how to conduct research in granular materials and explores promising directions for new research.

The first several chapters cover various methods used by contemporary researchers to investigate granular materials. Subsequent chapters delve into broader themes of investigation, focusing on results rather than methodology. The final chapters describe three extended systems of granular media: suspensions, emulsions and foams, and colloids.

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Editorial Review

Review

"This is a comprehensive and engaging collection ... by top researchers in the burgeoning field of granular materials. It connects together the combined advances in experimental, theoretical, and computational methods as well as the resulting new understanding that has emerged. This makes it a great and much-needed reference for scientists and engineers at many levels, ranging from beginning graduate students to seasoned experts."

?Douglas J. Durian, Professor, Department of Physics and Astronomy, University of Pennsylvania

About the Author

Scott V. Franklin is a professor in the Department of Physics at Rochester Institute of Technology, where he runs a lab that focuses on experimental and computational investigations of granular and other complex materials. His recent research interests include rod-like and other materials that, due solely to particle shape, can maintain a solid-like rigidity. He earned a PhD from The University of Texas at Austin.

Mark D. Shattuck is a professor in the Benjamin Levich Institute and Department of Physics at The City College of New York, where he performs experimental and computational research in soft condensed matter and granular materials. He is an editor of the journal *Granular Matter* and a founding organizer of the annual regional meeting "Northeastern Granular Materials Workshop." He also served on the Publication Oversight Committee of the American Physical Society. He earned a PhD from Duke University.

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