



2012, 2012, XIV, 631 p. 329 illus.

 **Printed book**

Hardcover

- ▶ **129,95 € | £117.00 | \$179.00**
- ▶ ***139,05 € (D) | 142,94 € (A) | CHF 173.00**

M. Nosonovsky, University of Wisconsin, Milwaukee, WI, USA; **B. Bhushan**, Ohio State University, Columbus, OH, USA (Eds.)

Green Tribology

Biomimetics, Energy Conservation and Sustainability

- ▶ - **presents green tribology - important for lubrication engineering**
- **gives information on biomimetic surfaces, self-cleaning surfaces, surface-healing and friction in living nature - important chapter on the Lotus effect and surface microstructuring - practical information on antifouling surfaces and tribology of wind power turbines**

Tribology is the study of friction, wear and lubrication. Recently, the concept of “green tribology” as “the science and technology of the tribological aspects of ecological balance and of environmental and biological impacts” was introduced. The field of green tribology includes tribological technology that mimics living nature (biomimetic surfaces) and thus is expected to be environmentally friendly, the control of friction and wear that is of importance for energy conservation and conversion, environmental aspects of lubrication and surface modification techniques, and tribological aspects of green applications such as wind-power turbines or solar panels. This book is the first comprehensive volume on green tribology. The chapters are prepared by leading experts in their fields and cover such topics as biomimetics, environmentally friendly lubrication, tribology of wind turbines and renewable sources of energy, and ecological impact of new technologies of surface treatment.



Order online at springer.com ▶ or for the Americas call (toll free) 1-800-SPRINGER ▶ or email us at: orders-ny@springer.com. ▶ For outside the Americas call +49 (0) 6221-345-4301 ▶ or email us at: orders-hd-individuals@springer.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with ** include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.