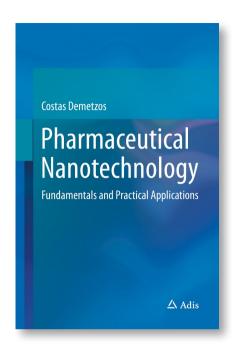


# springer.com



1st ed. 2016, XXVIII, 203 p. 44 illus., 17 illus. in color.



### Hardcover

- ► 64,99 € | £48.99 | \$79.99
- ► \*69,54 € (D) | 71,49 € (A) | CHF 71.50



#### Available from your library or

springer.com/shop



## Printed eBook for just

- ▶ € | \$ 24.99
- springer.com/mycopy

#### C. Demetzos

## **Pharmaceutical Nanotechnology**

**Fundamentals and Practical Applications** 

- ► Provides a novel approach to understanding bio-inspired nanotechnological systems for pharmaceutical applications by correlating their physicochemical, biophysical and thermodynamic behaviours with those of a living organism
- ► Appendices and detailed descriptions of techniques for practical applications act as an easy reference for the reader
- ► Chapters on nanotoxicity, safety and regulation inform the reader on the approval process for nanotechnological systems as pharmaceutics

This textbook explains the fundamental aspects of nanotechnology and fills the gap between bio-inspired nanotechnological systems and functionality of living organisms, introducing new insights to their physicochemical, biophysical and thermodynamic behaviour.

Addressed to all those involved in recent advances in pharmaceutics, this book is divided in three major parts: Part A refers to the physicochemical and thermodynamics aspects of nanosystems, wherein their biophysical behaviour is correlated with that of the cells of living organisms; Part B refers to the application of nanotechnology in imaging, diagnostics and therapeutics; Part C is focused on issues regarding safety and nanotoxicity of nanosystems, and the regulatory framework that surrounds these. The text promotes the concept that biophysics, thermodynamics and nanotechnology are considered to be emerging tools that, when approached within regulatory boundaries, provide new and integrated knowledge for the production of new medicines.



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

The first  $\in$  price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with \* include VAT for books; the  $\in$ (D) includes 7% for Germany, the  $\in$ (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.