

# New Books

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## **The respiratory system in equations**

**Series: MS&A, Vol. 7**

Maury, Bertrand. SPRINGER 2013, XVII, 276 p. ISBN 978-88-470-5214-7

- Numerous exercises helping the reader to learn quickly
- Online programs allowing the reader to perform his own computations
- No prior knowledge on physiology required

The book proposes an introduction to the mathematical modeling of the respiratory system. A detailed introduction on the physiological aspects makes it accessible to a large audience without any prior knowledge on the lung. Different levels of description are proposed, from the lumped models with a small number of parameters (Ordinary Differential Equations), up to infinite dimensional models based on Partial Differential Equations.

Besides these two types of differential equations, two chapters are dedicated to resistive networks, and to the way they can be used to investigate the dependence of the resistance of the lung upon geometrical characteristics.

The theoretical analysis of the various models is provided, together with state-of-the-art techniques to compute approximate solutions, allowing comparisons with experimental measurements. The book contains several exercises, most of which are accessible to advanced undergraduate students.

## **Clinical cases in integrative dermatology**

**Series: Clinical Cases in Dermatology, Vol. 4**

Norman, Robert A., Rupani, Reena. SPRINGER 2015, XI, 122 p. 12 illus. in color. ISBN 978-3-319-10244-3

Concise practical guidance to board certified dermatologists and dermatologists in training

Carefully themed to allow readers to gain a thorough practical knowledge of the wide range of cases they may see

Well illustrated to highlight evidence-based practice

This book serves as a useful clinical guide on integrative dermatology for dermatologists, internists, family practitioners, pediatricians, and anyone else charged with the care of the skin. The case-based format distinguishes this work from a reference-style textbook, allowing readers to relate the presented cases to their own patients.

Integrative dermatology is a relatively newly-defined field but is steadily increasing in popularity. Clinical Cases in Integrative Dermatology provides insight for clinicians and patients in handling the skin, with each chapter serving as a springboard for further pursuit and more extensive training. It will enable those new to the field to begin to develop a literacy

and competence, while the more experienced learner will find new ways to sharpen their diagnostic and treatment skills.

## **Adverse cutaneous drug reactions to cardiovascular drugs**

Özkaya, Esen, Yazganoglu, Kurtulus Didem. SPRINGER 2014, XXI, 259 p. 92 illus. in color. ISBN 978-1-4471-6536-1

- Comprehensive review with color photos on skin side effects of cardiovascular drugs
- Includes useful tables allowing diagnosis according to drug class and the type of dermatologic reaction at a glance
- Special emphasis on cross-reactions and the role of patch testing in diagnosis
- Easy access and common use in dermatology outpatient clinics

This book describes adverse cutaneous drug reactions as among the most frequent events in patients receiving drug therapy. Cardiovascular drugs are an important group as there are a greater number of indications for the use of new drugs and their prescription continues to increase. The exact incidence of cutaneous side effects from cardiovascular drugs is difficult to estimate due to sporadic reporting. Moreover, a reliable connection between a certain drug and a certain type of reaction can only rarely be made, aside from the well-known angioedema/urticaria from angiotensin-converting enzyme inhibitors, lichen planus/lichenoid reaction from beta adrenergic blockers, and photosensitivity from thiazid diuretics. These reactions can extend to rare but life-threatening conditions such as erythroderma, Stevens-Johnson syndrome, toxic epidermal necrolysis and drug hypersensitivity syndrome.

Adverse Cutaneous Drug Reactions To Cardiovascular Drugs reviews the reported types of reactions to cardiovascular drugs. Each is discussed according to drug class and the type of dermatologic reaction with special emphasize on cross-reactions and the role of patch testing in diagnosis. A total of 116 images are included featuring clinical appearance of common adverse cutaneous drug reactions and diagnostic procedures such as patch and photopatch testing with the suspected drugs. Complementary tables may allow to scan the most common cutaneous reactions and the related cardiovascular drugs along with the possible cross reactions at first glance. It will thus be of considerable importance to all dermatologists and medical professionals who manage the skin, while being an important reference resource for cardiologists in terms of identifying potential adverse reactions to the drugs they prescribe.