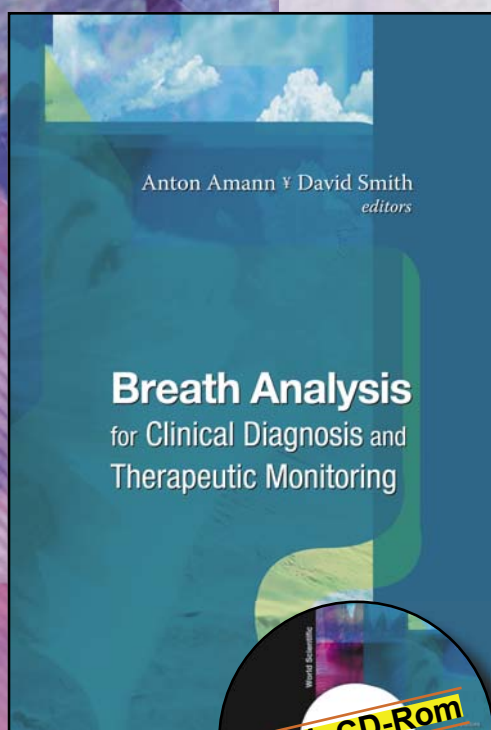


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Breath Analysis for Clinical Diagnosis and Therapeutic Monitoring

edited by

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This book describes how the analysis of the trace gases in exhaled breath can be used for non-invasive clinical diagnosis of disease and for monitoring the effectiveness of therapy. This approach offers an important addition to the diagnostic techniques available to medicine, having the advantage that on-line breath analysis can provide information to the clinician immediately and thus facilitate rapid diagnosis and treatment. The book is a compilation of contributions to a conference held in Dornbirn, Austria, 23–26 September 2004 on various aspects of this new topic. Written by the foremost workers in the field, it will provide clinicians and others in the medical fraternity with an up-to-date summary of the status of the subject. The wide scope of the chapters ranges from descriptions of the analytical methods that are available, through the use of breath analysis in the study of physiological phenomena, to the identification of biomarkers of particular injury and disease.

Contents: Techniques for Breath Analysis; Breath Analysis and Physiology; Breath Analysis for Diagnostics and Therapy; Clinical Breath Analysis; Breath Analysis in Animal Models; Breath Analysis in Real Time; Use of Isotopes in Breath Gas Analysis; Modeling and Simulation; Olfactory Signals; Exhaled Breath Condensate.

Readership: Graduate students in medicine, physiology and biology, researchers in non-invasive medical diagnostics, and clinicians and surgeons, including intensive care specialists.

Key Features

- First authoritative summary of the available analytical methods for breath analysis
- Identification of the known breath biomarkers for particular diseases, including cancer and respiratory disease
- Interesting case studies of physiological phenomena

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