



# Monitoring of Respiration and Circulation

*J. A. Blom*

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## **Monitoring of Respiration and Circulation** J. A. Blom

Monitoring of Respiration and Circulation provides biomedical engineers with a comprehensive source for understanding the variables of the respiratory and circulatory systems, which indicate how well these systems are functioning. This book covers techniques for measuring the variables, including modeling, medical instrumentation, and signal processing. It also discusses the reasons for the measurements.

The book describes the measurement principles, as well as the related physiology and anatomy, which is necessary to interpret the measurement's meaning. The author's goal is to provide a survey of the field, a review of the necessary fundamentals on which deeper study can be based, and an overview of possible search terms.

The early chapters of Monitoring of Respiration and Circulation provide an overview of the fundamentals of the respiratory and circulatory systems, and modeling. The intermediate chapters describe important clinical measurement methods and the information they provide about patients, including approaches, possibilities, limitations, and accuracies. Next, the book discusses state-of-the-art therapeutic instruments and supporting systems, such as infusion drips and pumps, heart-lung machines, and pacemakers.

Everything comes together in the final chapter, where patient monitoring is described as a feedback process with a human in the loop, underscoring the need for comprehensive yet understandable information in order to provide high-quality therapy.

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