

## Laser-based Environmental and Process Measurement

This book presents an overview of the latest in research and development of laser-based and optical measurement techniques, which are uniquely suited for environmental and industrial process analysis. Unlike conventional techniques, laser based equipment can work without direct physical contact with the measuring object, feature high measuring frequencies and can make simultaneous determination of several substances. The text records the work of a German national research program.

Environmental and industrial process analysis is of fundamental relevance for various tasks in the protection of the environment, as well as for the tracing of processes which are associated with changes in the concentration of chemical substances. In many cases, conventional techniques can not cope with today's requirements of fast, in-situ and online analytical tasks. Laser-based and optical measuring techniques are predestined for these applications. They can work without direct physical contact with the measuring object, feature high measuring frequencies and are suitable for the simultaneous determination of several substances. This book presents an overview of the state of the art in research and development within this field. The results of a German national research program are presented, to which 3 universities, 5 companies and the Fraunhofer-Gesellschaft have contributed.

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