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from only a few molecules focusing on samples in homogeneous media this book provides a unique guide incorporating theory and application to all available photothermal spectroscopy techniques for chemical and material analysis it uses a systematic approach in its comprehensive treatment of the theory and covers all the necessary background material from laser optics to fluid dynamics this accessible text describes the various processes used to detect thermal perturbation of a sample ranging from optical excitation to nonlinear processes and covers all optical principles necessary to understand photothermal spectroscopy when dealing with hydrodynamic equations that govern energy transfer in the sample matrix it provides an original impulse response approach in addition the book explains how to construct the apparatus one needs to conduct successful photothermal experiments since commercial equipment is not available as in conventional spectrophotometry throughout this book draws on information from a wide range of fields including analytical spectroscopy measurement physics physical optics and chemical dynamics providing clear explanations at every turn the author demonstrates a complete understanding of the theory and applications as a firm basis for the correct interpretation of experimental results for analytical chemists as well as for students at the graduate level photothermal spectroscopy methods for chemical analysis is an unmatched resource that develops a consistent mathematical basis for signal description consolidates previous theories and provides invaluable insight into laser technology

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