Handbook Of Laser Induced Breakdown Spectroscopy

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Starting from fundamentals and moving through a thorough discussion of equipment, methods, and techniques, the Handbook of Laser-Induced Breakdown Spectroscopy provides a unique reference source that will be of value for many years to come for this important new analysis method. The authors, with a total of over 60 years of experience in the LIBS method, use a combination of tutorial discussions ranging from basic principles up to more advanced descriptions along with extensive figures and ...

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Handbook of laser-induced breakdown spectroscopy/David A. Cremers and Leon J. Radziemski. p. cm. Includes bibliographical references and index. ISBN-13: 978-0-470-09299-6 (cloth:alk. paper) ISBN-10: 0-470-09299-8 (cloth:alk. paper) 1. Atomic emission spectroscopy. 2. Laser spectroscopy. I. Radziemski, Leon J., 1937– II. Title. QD96.A8C74 2006

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The Handbook of Laser-Induced Breakdown Spectroscopy, Second Edition: provides a thorough but understandable discussion of the basic principles of the method based on atomic emission spectroscopy, including recently available data leading to better characterization of the LIBS plasma; presents a discussion of the many advantages of the method along with limitations, to provide the reader a balanced overview of capabilities of the method; describes LIBS instrumentation ranging from basic set ...

[Handbook of Laser-Induced Breakdown Spectroscopy on Apple ...
D.A. Cremers and L.J. Radziemski, in " Handbook of Laser-Induced Breakdown Spectroscopy, " (2006) p. 45 29 2. removal of samples mass (ablation)2. removal of samples mass (ablation) B.N. Chichkov et al., Appl. Phys. A63, 109-115 (1996)

Laser-Induced Breakdown Spectroscopy (LIBS)
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Handbook of Laser-Induced Breakdown Spectroscopy (2nd ed.)
Starting from fundamentals and moving through a thorough discussion of equipment, methods, and applications, the Handbook of Laser-Induced Breakdown Spectroscopy will provide a unique references source that will be of value for many years of this important new analytical technique.

Handbook of Laser-Induced Breakdown Spectroscopy: Cremers ...
Maker et al. in 1963 performed the first observation of optically-induced breakdown in a gas. A year later, Runge et al. discussed the use of a pulsed Q-switched ruby laser for direct laser spark analysis of metals. Linear calibration curves were obtained for nickel and chromium in iron, with precisions of 5.3% and 3.8%, respectively.

A brief history of laser-induced breakdown spectroscopy ...
Laser-induced breakdown denotes a kind of spark, initiated by intense laser light e.g. in air. It can be used for laser spectroscopy.

RP Photonics Encyclopedia - laser-induced breakdown ...
Laser ablation-based techniques, such as laser-induced breakdown spectroscopy (LIBS) or laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS), are often used in combination with non-invasive techniques including infrared spectroscopy (IR) [4], Raman spectroscopy [,,,,] or X-ray fluorescence (XRF) [,,,].

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