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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

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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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~~Laser-Induced Breakdown Spectroscopy (LIBS)~~

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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

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spectroscopy (IR) [4], Raman spectroscopy [,,,] or X-ray fluorescence (XRF) [,,,].

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