



## Spectroscopic Analysis of Chemical Species in Carbon Plasmas

By J. J. Camacho, J. M. L. Poyato, L. Díaz, M. Santos

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Spectroscopic Analysis of Chemical Species in Carbon Plasmas, J. J. Camacho, J. M. L. Poyato, L. Díaz, M. Santos, This book describes certain fundamentals of laser-induced breakdown spectroscopy (LIBS) and the experimental results obtained from ultraviolet-visible-near infrared (UV-Vis-NIR) spectra induced by laser ablation of a graphite target. The characteristics of the spectral emission intensities from the different species have been investigated as functions of the ambient pressure, laser irradiance, delay time and distance from the target. Excitation, vibrational and rotational temperatures, as well as ionisation degree and electron number density for some species were estimated. Time-gated spectroscopic studies have allowed estimation of time-of-flight (TOF) and propagation velocities for various emission species.



**READ ONLINE**  
[ 6.14 MB ]

### Reviews

*It in one of my personal favorite ebook. I was able to comprehended everything using this created e ebook. I am just pleased to tell you that here is the greatest ebook i have got read through within my own lifestyle and may be he finest publication for possibly.*

-- **Timothy Johnson DVM**

*This publication might be well worth a read through, and much better than other. It is amongst the most incredible book i actually have read through. I am delighted to tell you that here is the finest book i actually have read through inside my own life and could be he best ebook for possibly.*

-- **Aracely Hickle**