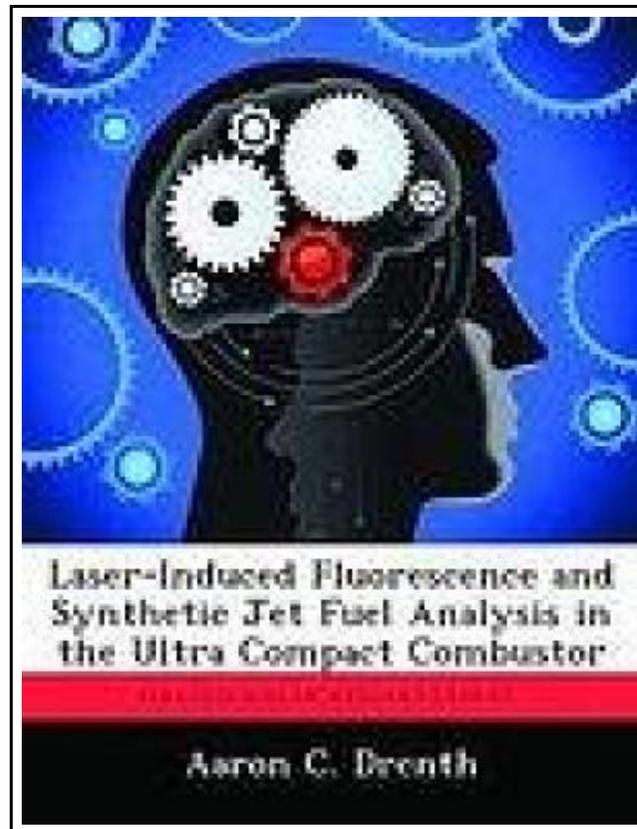


Laser-Induced Fluorescence and Synthetic Jet Fuel Analysis in the Ultra Compact Combustor



Filesize: 2.37 MB

Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

LASER-INDUCED FLUORESCENCE AND SYNTHETIC JET FUEL ANALYSIS IN THE ULTRA COMPACT COMBUSTOR



To get **Laser-Induced Fluorescence and Synthetic Jet Fuel Analysis in the Ultra Compact Combustor** PDF, remember to refer to the button below and save the document or get access to other information which might be in conjunction with LASER-INDUCED FLUORESCENCE AND SYNTHETIC JET FUEL ANALYSIS IN THE ULTRA COMPACT COMBUSTOR book.

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x10 mm. This item is printed on demand - Print on Demand Neuware - The Ultra Compact Combustor is currently under investigation at the Air Force Institute of Technology and Air Force Research Laboratory's Propulsion Directorate. This combustor is a small-scale, axi-symmetric, atmospheric pressure, laboratory combustor with an outer circumferential cavity in which the flame is stabilized by a highly accelerated swirled flow. This ultra-compact combustor (UCC) will enable aero gas turbine reheat cycle engines and significantly shorten conventional aero gas turbine engines. The experiments of this work utilized the AFIT small-scale combustion diagnostics facility, investigating a sector model of the UCC. The objectives of this research was to perform an addition to and validation of the COAL lab laser diagnostic system and to begin the characterization of a small-scale model of an UCC using hydrogen, and both traditional and synthetic jet fuels. Validation of the laser system was accomplished by using two-line planar laser induced fluorescence (PLIF) on a laminar premixed hydrogen-air flame produced by a Hencken burner. OH species concentrations were measured. Flame temperatures were determined with a two-line fluorescence technique using different transitions in the (1,0) band of the OH (A-X) electronic transition system. Comparisons are made to existing research to prove accuracy. Operational procedure of the Hencken burner and UCC were modified as necessary. The ignition system was modified and UCC starting conditions have been updated. Emissions data was collected using synthetic jet fuel and compared to traditional jet fuel. Future work will involve using PLIF to further study the cavity-vane interactions of the UCC. 166 pp. Englisch.



[Read Laser-Induced Fluorescence and Synthetic Jet Fuel Analysis in the Ultra Compact Combustor Online](#)



[Download PDF Laser-Induced Fluorescence and Synthetic Jet Fuel Analysis in the Ultra Compact Combustor](#)



[Download ePub Laser-Induced Fluorescence and Synthetic Jet Fuel Analysis in the Ultra Compact Combustor](#)

Other Books



[PDF] Psychologisches Testverfahren

Follow the hyperlink beneath to get "Psychologisches Testverfahren" file.

[Read Document »](#)



[PDF] Programming in D

Follow the hyperlink beneath to get "Programming in D" file.

[Read Document »](#)



[PDF] Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Follow the hyperlink beneath to get "Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird" file.

[Read Document »](#)



[PDF] Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Follow the hyperlink beneath to get "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" file.

[Read Document »](#)



[PDF] Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)

Follow the hyperlink beneath to get "Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" file.

[Read Document »](#)



[PDF] Dom's Dragon - Read it Yourself with Ladybird: Level 2

Follow the hyperlink beneath to get "Dom's Dragon - Read it Yourself with Ladybird: Level 2" file.

[Read Document »](#)



[PDF] Ohio Court Rules 2012, Practice Procedure (Paperback)

Click the web link under to get "Ohio Court Rules 2012, Practice Procedure (Paperback)" PDF document.

[Save ePub »](#)



[PDF] Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer (Paperback)

Click the web link under to get "Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer (Paperback)" PDF document.

[Save ePub »](#)



[PDF] Peppa Pig: Camping Trip - Read it Yourself with Ladybird: Level 2

Click the web link under to get "Peppa Pig: Camping Trip - Read it Yourself with Ladybird: Level 2" PDF document.

[Save ePub »](#)



[PDF] Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)

Click the web link under to get "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)" PDF document.

[Save ePub »](#)



[PDF] Leave It to Me (Ballantine Reader's Circle)

Click the web link under to get "Leave It to Me (Ballantine Reader's Circle)" PDF document.

[Save ePub »](#)



[PDF] The Monster Next Door - Read it Yourself with Ladybird: Level 2

Click the web link under to get "The Monster Next Door - Read it Yourself with Ladybird: Level 2" PDF document.

[Save ePub »](#)