


[DOWNLOAD](#)


## Development of a High-Pressure Gaseous Burner for Calibrating Optical Diagnostic Techniques (Paperback)

By Jun Kojima

Bibliogov, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In this work-in-progress report, we show the development of a unique high-pressure burner facility (up to 60 atm) that provides steady, reproducible premixed flames with high precision, while having the capability to use multiple fuel/oxidizer combinations. The highpressure facility has four optical access ports for applying different laser diagnostic techniques and will provide a standard reference flame for the development of a spectroscopic database in high-pressure/temperature conditions. Spontaneous Raman scattering (SRS) was the first diagnostic applied, and was used to successfully probe premixed hydrogen-air flames generated in the facility using a novel multi-jet micro-premixed array burner element. The SRS spectral data include contributions from H<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub>, and H<sub>2</sub>O and were collected over a wide range of equivalence ratios ranging from 0.16 to 4.9 at an initial pressure of 10-atm via a spatially resolved point SRS measurement with a high-performance optical system. Temperatures in fuel-lean to stoichiometric conditions were determined from the ratio of the Stokes to anti-Stokes scattering of the Q-branch of N<sub>2</sub>, and those in fuel-rich conditions via the rotational temperature of H<sub>2</sub>. The SRS derived temperatures using both techniques were...


[READ ONLINE](#)

[ 2.26 MB ]

### Reviews

*Absolutely essential go through pdf. Indeed, it really is play, continue to an interesting and amazing literature. You will not truly feel monotony at at any time of your time (that's what catalogues are for concerning if you question me).*

-- **Julia Mohr II**

*Simply no phrases to explain. It is definitely simplistic but shocks from the fifty percent from the pdf. You may like the way the blogger write this ebook.*

-- **Antonetta Tremblay**

## See Also



### **Fart Book African Bean Fart in the Adventures Jungle: Short Stories with Moral**

Createspace, United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.BONUS - Includes FREE Dog Fart Audio Book for Kids Inside! For a very time limited period you can download...



### **Hoops to Hippos!: True Stories of a Basketball Star on Safari**

National Geographic Kids, United Kingdom, 2015. Paperback. Book Condition: New. 190 x 130 mm. Language: English . Brand New Book. NBA star Boris Diaw of the San Antonio spurs takes young readers on safari as he explores his off-court passion: wildlife photography!...



### **DK Readers L1: Jobs People Do: A Day in the Life of a Firefighter**

DK Publishing. Paperback / softback. Book Condition: new. BRAND NEW, DK Readers L1: Jobs People Do: A Day in the Life of a Firefighter, Linda Hayward, DK Publishing, This Level 1 book is appropriate for children who are just beginning to read....



### **DK Readers L1: Jobs People Do: A Day in the Life of a Teacher**

DK Publishing (Dorling Kindersley), United States, 2001. Paperback. Book Condition: New. American.. 224 x 150 mm. Language: English . Brand New Book. This Level 1 book is appropriate for children who are just beginning to read. Ms. Hill brings 28 fish to...



### **Book Finds: How to Find, Buy, and Sell Used and Rare Books (Revised)**

Perigee. PAPERBACK. Book Condition: New. 0399526544 Never Read-12+ year old Paperback book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! \* I...



### **Growing Up: From Baby to Adult High Beginning Book with Online Access**

Cambridge University Press, 2014. UNK. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.