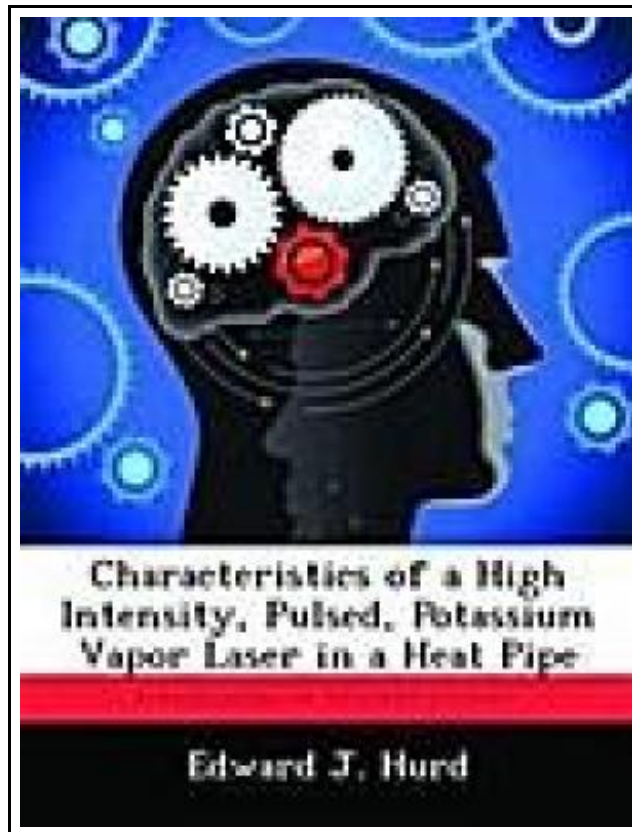


## Characteristics of a High Intensity, Pulsed, Potassium Vapor Laser in a Heat Pipe



Filesize: 3.53 MB

### ***Reviews***

*A fresh e book with a brand new point of view. It is actually writter in straightforward terms and never difficult to understand. I found out this pdf from my dad and i suggested this ebook to understand.  
(Dr. Lisandro Schuppe MD)*

## CHARACTERISTICS OF A HIGH INTENSITY, PULSED, POTASSIUM VAPOR LASER IN A HEAT PIPE



Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x4 mm. This item is printed on demand - Print on Demand Neuware - This thesis research paper presents the results of experiments using an optically pumped, pulsed potassium vapor laser in a heat pipe. The absorption on the potassium D2 line, output laser characteristics, and Raman scattering in potassium vapor are discussed. The spectral full width at half maximum (FWHM) of the D2 absorption line was much greater than predicted values for pressure broadening due to the high number density of potassium atoms and the long path length. At 320°C and 0 torr of helium, the FWHM was 765 GHz. At 100 torr it was 968 GHz. At 200 torr it was 1.12 THz. The analyzed potassium laser output characteristics include the temporal dynamics of the laser cavity, the instantaneous energy efficiencies, and the spin-orbit recycling rates. At 320°C with 2500 torr of helium, a potassium laser with 1.53 MW/cm peak intensity and 8.25% slope efficiency was demonstrated. At 320°C and 0 torr of helium, stimulated electronic Raman scattering occurred in the potassium heat pipe. First and second order Stokes and anti-Stokes lines were visible with energy differences identical to the spin-orbit splitting of potassium. 62 pp. Englisch.



[Read Characteristics of a High Intensity, Pulsed, Potassium Vapor Laser in a Heat Pipe Online](#)



[Download PDF Characteristics of a High Intensity, Pulsed, Potassium Vapor Laser in a Heat Pipe](#)

## Relevant Books



### **The Adventures of a Plastic Bottle: A Story about Recycling**

SIMON SCHUSTER, United States, 2009. Paperback. Book Condition: New. Children s Tk, Pete Whitehead (illustrator). Original ed.. 203 x 196 mm. Language: English . Brand New Book. Learn about recycling from a new perspective! Peek...

[Save Book »](#)



### **31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Reading to children is a wonderful activity and past time that both parents...

[Save Book »](#)



### **Dog on It! - Everything You Need to Know about Life Is Right There at Your Feet**

14 Hands Press, United States, 2013. Paperback. Book Condition: New. 198 x 132 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Have you ever told a little white lie? Or maybe a...

[Save Book »](#)



### **The Savvy Cyber Kids at Home: The Defeat of the Cyber Bully**

Createspace, United States, 2014. Paperback. Book Condition: New. Taylor Southerland (illustrator). 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The adventures of CyberThunder (Tony) and CyberPrincess (Emma) continue in...

[Save Book »](#)



### **Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home**

Random House USA Inc, United States, 2009. Paperback. Book Condition: New. 2nd. 229 x 185 mm. Language: English . Brand New Book. Provide a solid education at home without breaking the bank. Introduced in 2000,...

[Save Book »](#)