

Festschrift Zur Feier Der Einweihung Ihres Neuen Gebäudes 2, Nov. 1884



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Reviews

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(Kurtis Parisian)

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 1999 OCLC Number: (OCoLC)311095897 Subject: Lasers. Excerpt: . . . The amount of energy deposited (or more precisely the energy density) is a controlling factor in the ignition of energetic materials. Figure 3 shows the measured variation in ignition and flamespread (as previously defined). The lines are least-square fits to the measured points. For this series, sample sizes between 65 and 70 mg of FFFg BP were used. The laser was unfocused. The behavior is nominal, with energy accelerating the ignition process but having no effect on the flamespread through the bed of powder. While larger values of deposited energy would clearly decrease the ignition time, it was anticipated that the energy available to the igniter in the gun would be close to 0.5 J. This was chosen as a maximum value here. 0.5t . . . l . . . l . . . , , l 0.2 0.3 0.4 0.5 0.6 energy, J Figure 3. Ignition Delay (Upper) and Flamespread Time (Lower) vs. Energy for FFFg BP. The behavior of ignition as a function of loading density is also of interest. In Figure 4, the behavior for both sizes is shown over the range from 0.2 to 0.9 g cm³. The laser energy was fixed near 0.55 J, unfocused. In spite of the variations, two trends are clear. The first is that the FFFg ignites more rapidly. The second is that the class 7 powder is slower at the highest densities. This effect may be due to heat loss or some other interaction with...



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