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# 3 An Example of a Simple Equation

The Eikonal ray equation:



where  is the position vector of a point on the ray and *ds* is an element of the arc length along the ray. The details of the reconstruction are given in [5] and illustrated on Fig. 2.

# 4 Examples of Figures and Tables

Sample figure:



Figure 1: Ignition time vs. reciprocal temperature in lean and rich ethylene/air mixtures for mid post-shock density behind RSW [4].

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Figure 2: Contours of normalized density. Left: Density gradients isoline in transonic flow, obtained by digital laser speckle photography. Right: Magnified fragment of the flowfield.

Sample table:

Table 1: Characteristics of some prehistoric films for high speed diagnostics.

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Resolution, line/mm | Exposure for D = 1, | Remarks |
| Agfa 8E75 | 5 000 | 10 | λ= 632.8*nm* |
| Agfa 8E56 | 5 000 | 15  25 | λ= 476*nm*  λ = 521*nm* |
| Agfa 10E56 | 2 800 | 1.4  1.9 | λ= 476*nm*  λ = 521*nm* |
| Agfa 10E75 | 2 800 | 2 | λ= 632.8*nm* |
| Agfa 14C70 | 1 500 | 0.3 | λ= 700*nm* |
| Agfa 14C75 | 1 500 | 0.3 | λ= 700*nm* |
| Kodak 649F | 2 000 | 70  500 | λ= 632.8*nm*  λ = 694.3*nm* |
| Kodak 125 | 1 250 | 2  5 | λ=441.6*nm*  λ = 514.5*nm* |
| Kodak 131 | 1 250 | 0.5-0.8 | λ= 632.8*nm* |
| Kodak 120-02 | 1 250 | 33 | λ= 694.3*nm* |
| Kodak TP 2415 | 320 | 0.15 | λ= 694.3*nm* |

# References

[1] Bazhenova TV, Soloukhin RI. (1958). Gas ignition behind shock waves. Proc. Combust. Inst. 7: 866.

[2] Oppenheim AK. (1966). Novel Insight into the detonation process. Acta Astronaut. 11: 391.

[3] Lee JHS. (1977). Initiation of gaseous detonation. Ann. Rev. Phys. Chem. 28: 75.

[4] Penyazkov OG, Ragotner, KA, Dean AJ, Varatharajan B. (2005). Autoignition of propane-air behind reflected shock waves. Proc. Combust. Inst. 30: 1941.

[5] Brossard J, Fomin N, Soloukhin R. (1979). Shock tube ignition and detonation studies by resonance (10.6 μn) absorption in propane. Acta Astronaut. 24: 861.

[6] Zel'dovich YaB , Barenblatt, GI, Librovich, VB, Makhviladzw GM. (1985). The mathematical theory of combustion and explosions. Plenum Publishing Corporation (ISBN 0-306-10974-3).