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A review of literature on high-speed photography and dynamic photoelasticity is presented. Equipment and techniques for streak photography are described in detail.

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The propagation of stress waves in CR-39 plastic is shown. Propagation is instigated by the impact of rod and by the explosion of blasting caps in contact with the specimen. Maximum photo speed was 1.25 microsec between frames. Results are analyzed in terms of wave propagation theory.

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- 2019 Clark A B J
STATIC AND DYNAMIC CALIBRATION OF A PHOTOELASTIC
MODEL MATERIAL, CR-39
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1956, Vol. XIV No. 1, pp. 195-204.

A thorough investigation of the properties of CR-39 is conducted. Dynamic properties are determined by passing a stress wave through the material and using a photocell to record lightness and darkness (i. e. passage of different fringes). Techniques are fully discussed and results are analyzed.

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