



## Filtered Rayleigh Scattering Measurements in a Buoyant Flowfield (Paperback)

By Christopher C McGaha

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Filtered Rayleigh Scattering (FRS) is a non-intrusive technique for studying flowfields. It utilizes a narrow linewidth laser, an absorption filter, and a detector. Molecular scattering provides the signal to the camera, and the difference in molecular cross section can be used to discriminate between unmixed gaseous components. The focus of this research is to document the behavior of a horizontal buoyant jet using FRS. A helium jet of precisely controlled mass flow rate is injected into a standard room temperature environment, and FRS provides the means to measure its core trajectory and mixing rate. Trajectory analysis, conducted with consideration of the Reynolds number and Grashof number, can be used to compare these results to the literature. A significant portion of the study was dedicated to measuring the rate at which FRS data can be acquired with a continuous wave laser. Additionally, mixing patterns for the buoyant jet were collected and indicate that core low-density fluid is expelled into the ambient region in a striking manner under certain...



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