

Schlieren and shadowgraph methods in heat and mass transfer

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Abstrak

Schlieren and shadowgraph methods in Heat and Mass Transfer lays out the fundamentals of refractive index based imaging techniques, optical configurations, image analysis, and three dimensional reconstructions. The present monograph aims at temperature and concentration measurements in transparent media using ray bending effects in a variable refractive index field. Data analysis procedure for three-dimensional reconstruction of temperature and concentration field using images at different view angles is presented. Test cases illustrating the validation of the quantitative analysis procedure are presented.