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# Applied Optical Measurements

By Markus Lehner

Springer-Verlag Gmbh Sep 1999, 1999. Buch. Condition: Neu. Neuware - This book provides a compilation of important optical techniques applied to experiments in heat and mass transfer, multiphase flow and combustion. The emphasis of this book is on the application of these techniques to various engineering problems. The contributions are aiming to provide practicing engineers, both in industry and research, with the recent state of science in the application of advanced optical measurements. The book is written by selected specialists representing leading experts in this field who present new information for the possibilities of these techniques and give stimulation of new ideas for their application. TOC: From the contents: Optical methods applied to combustion research performed by F. Mayinger.- Visual investigation of boiling phenomena in CHF subcooled flow boiling.- An optical investigation of the solidification process in a rectangular cavity.- Holographic investigations applied to various engineering problems performed by F. Mayinger.- A visualization study of jet impingement on cylindrical surfaces.- Fibre optical sensors for measuring local quantities in gas-liquid two-phase flow.- Optical measurement of wall temperatures during nucleate boiling.- Development of a conductance sensor for measuring solids concentration in large diameter slurry pipelines.- Stable vortex structures in axisymmetric flame under oscillating...



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