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Tuesday, November 15, 2022

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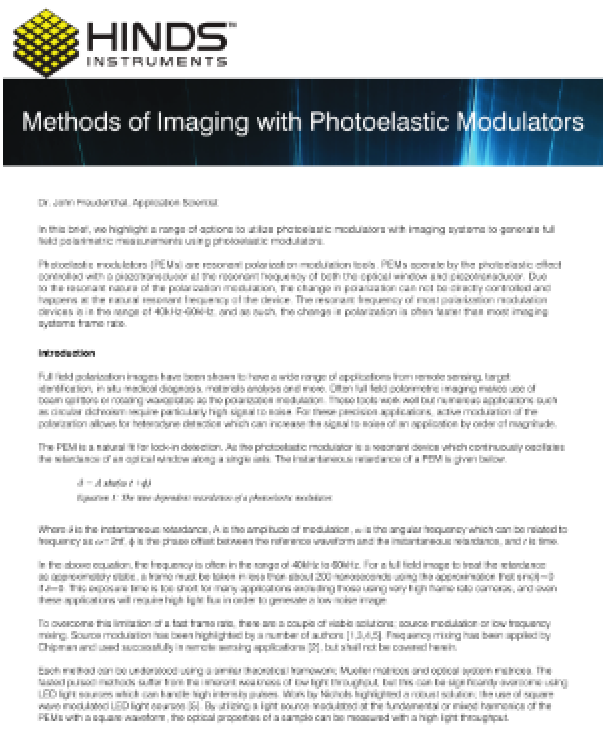

Methods of Imaging with Photoelastic Modulators

This paper highlights a range of options to utilize Photoelastic Modulators (PEMs) with imaging systems to generate full field polarimetric measurements. Due to the resonant nature of the polarization modulation, the change in polarization cannot be directly controlled and happens at the natural resonant frequency of the device. Typical resonant frequencies of PEMs are 40 kHz to 60 kHz, and as such, the change in polarization is often faster than most imaging systems frame rate.

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