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IIT-M commercialises software for photoelastic analysis and simulation for biomedical application

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Photoelastic stress analysis has seen a sea change with the advent of digital computers and imaging technologies



Indian Institute of Technology Madras (IIT-M) has commercialised four state-of-the-art software packages in the field of photoelastic analysis and simulation through an industry partner. The softwares have applications in diverse fields ranging from agricultural applications to locomotion of organisms to mitigating stresses or identifying defects in 3D electronics.

Novel applications for photoelasticity include areas like biomedical and conventional stress analysis involving complex loading and boundary conditions in aerospace, civil, mechanical, and manufacturing engineering fields as well.

Photoelastic stress analysis has seen a sea change with the advent of digital computers and imaging technologies. Hitherto, there has been no comprehensive software platform to implement such developments in research laboratories and Industries using this technique.

This is the first comprehensive software for experimentally-based photoelastic stress analysis tool. Doctors, agriculturists and biologists are now increasingly turning to use photoelasticity for solving their domain problems. They can authentically process recorded images using the software for deriving important conclusions from their studies.

IIT-Madras has entered a licensing and monetisation agreement with Online Solutions (Imaging), Chennai.