



Digital Photoelasticity: Advanced Techniques and Applications

By K. Ramesh

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A straightforward introduction to basic concepts and methodologies for digital photoelasticity, providing a foundation on which future researchers and students can develop their own ideas. The book thus promotes research into the formulation of problems in digital photoelasticity and the application of these techniques to industries. In one volume it provides data acquisition by DIP techniques, its analysis by statistical techniques, and its presentation by computer graphics plus the use of rapid prototyping technologies to speed up the entire process. The book not only presents the various techniques but also provides the relevant time-tested software codes. Exercises designed to support and extend the treatment are found at the end of each chapter.

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Editorial Review

Review

Excerpts from the Reviews of the book on Digital Photoelasticity(Pattern I)

The author has produced a first class text book that should find widespread use among students, researchers, and design engineers in many branches of engineering.....

Applied Mechanics Reviews 55(4) B69-B71 JUL 2002

The book is accompanied by a CD-ROM of the C source code of the programs referred to in the text along with some photoelasticity simulations and some hardware-specific code. The text is supported by ample end-of-chapter tutorial questions.....

Strain 38 85-86 2002

Bible of digital photoelasticity., 17 February, 2001

Not only beginners and students but also researchers, engineers and inspectors should read this book as a bible of photoelasticity.

<http://www.amazon.co.uk/exec/obidos/ASIN/3540667954/qid%3D1050727743/202-1368056-3855028>

....This is the first monograph in its field and forms a useful contribution...

Meas. Sci. Technol. 11 (December 2000) 1826-1827

From the Back Cover

The principal objectives of the book are to provide an introduction to basic concepts and methodologies for digital photoelasticity and to develop a foundation on which the future researcher and student can develop his own ideas and promote research in formulation of problems in digital photoelasticity and application of these techniques to industries. Particular care has been taken to give a clear, straightforward, and simple presentation of various topics. In one volume it provides data acquisition by DIP techniques, data analysis by statistical techniques, data presentation by computer graphics and the use of Rapid Prototyping technologies to enhance the speed of the entire process. The book not only presents the various techniques but also provides time-tested software codes for important techniques. Exercises designed to support and extend the treatment have been placed at the end of each chapter.

Users Review

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