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Testing presents a unified discussion of the principles and methods of holography and its application holographic nondestructive testing. The book discusses in detail the

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*basic
theoretical
concepts, the
experimental
methods for
recording
holograms, and
different
specialized
holographic
techniques.
Several kinds
of holography*

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are discussed
in the
beginning
chapters such
as continuous-
wave
holography,
pulsed
holography, and
interferometric
holography.
Other topics
covered in the

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book are
holographic
surface
contouring,
holographic
correlation,
and holographic
vibration
analysis.

Microwave and
acoustical
holography are
the major areas

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*of interest in
Chapters 9 and
10. The text
serves as an
important
reference to
both engineers
and optical
scientists.
Completing the
Solution of
Partially
Specified*

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*records the
proceedings of an
international
conference
organised as a
tribute to the
contribution
made by
Professor H.
Fessler over the
whole of his pro
fessionallife, in
the field of*

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*applied stress
analysis. The
conference, held
at the University
of Nottingham on
30 and 31 August
1990, was timed
to coincide with
the date of his
formal retirement
from the post of
Professor of
Experimental*

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*Stress Analysis in
the University.*

*The idea grew
from discussions
between some of
Professor
Fessler's
academic
associates from
Nottingham and
elsewhere. An
organising
committee was*

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set up, and it was decided to invite contributions to the conference in the form of review papers and original research papers in the field of experimental, theoretical and computational stress analysis.

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The size of the response, both in papers submitted and in attendance at the conference, indicates that the idea proved attractive to many of his peers, former associates and research

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students. A bound copy of the volume is to be presented to Professor Fessler at the conference dinner on 30 August 1990.

All structures suffer from stresses and strains caused by factors such as

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wind loading and vibrations. Stress analysis and measurement is an integral part of the design and management of structures, and is used in a wide range of engineering areas. There are two main types of

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*stress analyses –
the first is
conceptual where
the structure
does not yet exist
and the analyst
has more
freedom to define
geometry,
materials, loads
etc – generally
such analysis is
undertaken using*

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numerical methods such as the finite element method. The second is where the structure (or a prototype) exists, and so some parameters are known. Others though, such as wind loading or

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*conditions will
not be completely
known and yet
may profoundly
affect the
structure. These
problems are
generally handled
by an ad hoc
combination of
experimental and
analytical*

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methods. This book therefore tackles one of the most common challenges facing engineers - how to solve a stress analysis problem when all of the required information is not available. Its central concern is

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*to establish
formal methods
for including
measurements as
part of the
complete analysis
of such problems
by presenting a
new approach to
the processing of
experimental
data and thus to
experimentation*

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itself. In addition, engineers using finite element methods will be able to extend the range of problems they can solve (and thereby the range of applications they can address) using the methods

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developed here.

Modern

Experimental

Stress Analysis:

Presents a

comprehensive

and modern

reformulation of

the approach to

processing

experimental

data Offers a

large collection of

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problems ranging
from static to
dynamic, linear
to non-linear

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analysis with the
finite element
method Includes
a wealth of
documented
experimental
examples*

Provides new

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in American

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(p. 522-652).

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Symposium on Shear
and Torsion Testing

Designing and
manufacturing
structures of all
kinds in an

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economic and a safe way is not possible without doing experimental stress analysis.

The modernity of structures, with their higher reliability demands, as well as today's more stringent safety

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rules and extreme environmental conditions necessitate the improvement of the measuring technique and the introduction of new ones. Although the theoretical/mathematical analysis is improving

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enormously, an example of which is the finite element model, it cannot replace experimental analysis and vice versa. Moreover, the mathematical analysis needs more and more accurate

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parameter data
which in turn need
improved
experimental
investigations. No
one can do all
those
investigations on
his own. Exchange
of knowledge and
experience in
experimental

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stress analysis is a necessity, a thing acknowledged by every research worker. Therefore, the objective of the Permanent Committee for Stress Analysis (PC SA) is to promote the organization of

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conferences with
the purpose
disseminating new
research and new
measuring
techniques as well
as improvements
in existing
techniques, and
furthermore, to
promote the
exchange of

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experiences of
practical
applications with
techniques. this
VIIIth International
Conference on
Experimental
Stress Analysis on
behalf of the PC
SA is one in a
series which
started in 1959 at

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Delft (NL), and was followed by conferences at Paris (F), Berlin-W, Cambridge (~K), Udine (I), Munich (FRG) and Haifa (Isr.). Such a Conference will be held in Europe every fourth year, half-way between

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the IUTAM
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Dynamic Behavior
of Materials,

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quick reference
guide to
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applicable to
piping systems.
The book
considers in one
handy reference
the multitude of*

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*pipes, flanges,
supports, gaskets,
bolts, valves,
strainers,
flexibles, and
expansion joints
that make up
these often
complex systems.
It uses hundreds
of calculations and
examples based*

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*on the author's 40
years of
experiences as
both an engineer
and instructor.*

*Each example
demonstrates how
the code and
standard has been
correctly and
incorrectly
applied. Aside*

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*from advising on
the intent of codes
and standards, the
book provides
advice on
compliance.*

*Readers will come
away with a clear
understanding of
how piping
systems fail and
what the code*

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*requires the
designer,
manufacturer,
fabricator,
supplier, erector,
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inspector, and
owner to do to
prevent such
failures. The book
enhances
participants'*

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*understanding
and application of
the spirit of the
code or standard
and form a plan
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Testing and Stress
Analysis

This book
summarizes the
main methods of
experimental stress
analysis and
examines their
application to

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various states of stress of major technical interest, highlighting aspects not always covered in the classic literature. It is explained how experimental stress analysis assists in the verification and completion of

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analytical and
numerical models,
the development of
phenomenological
theories, the
measurement and
control of system
parameters under
operating
conditions, and
identification of
causes of failure or

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malfunction. Cases addressed include measurement of the state of stress in models, measurement of actual loads on structures, verification of stress states in circumstances of complex numerical

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modeling,
assessment of stress-
related material
damage, and
reliability analysis
of artifacts (e.g.
prostheses) that
interact with
biological systems.
The book will serve
graduate students
and professionals as

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a valuable tool for finding solutions when analytical solutions do not exist.

The design of mechanical components for various engineering applications requires the understanding of

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stress distribution in the materials. The need of determining the nature of stress distribution on the components can be achieved with experimental techniques.

Applications and
Techniques for
Experimental Stress

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measurement and control of system parameters under working conditions, and identification of sources of failure or malfunction.

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analysis, this book is essential for mechanical engineers, civil engineers, designers, aerospace engineers, researchers, industry professionals, academicians, and students.

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Philadelphia, Pa.,

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May 13, 1969
Japanese Science
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deals with different
aspects of stress
analysis,
highlighting basic
and advanced
concepts, with a***

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***separate chapter
on aircraft
structures. The
inclusion of a large
number of figures,
tables, and solved
problems ensure a
Elements of
Experimental
Stress Analysis
describes the
principles of the
techniques and***

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***equipment used in
stress analysis
and suggests
appropriate
applications of
these in laboratory
and field
investigations.
Examples from the
field of civil
engineering are
used to illustrate
the various***

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***methods of
analysis. This
book is comprised
of 12 chapters and
begins with a
discussion on the
use of models,
scale factors, and
materials in
experimental
stress analysis.
The next chapter
focuses on the***

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***application of load
to the element
under test, with
emphasis on the
means of creating
the required
forces; the means
of applying these
forces to the test
piece; and the
means of
measuring the
forces. The reader***

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*is then introduced
to the principles of
various types of
strain gauges, as
well as the
methods of
calculating
stresses from
strains in the case
of elastic
materials.*

*Subsequent
chapters explore*

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*two-dimensional
photoelasticity;
the frozen stress
method and
surface coating
techniques;
structural model
analysis; special
instruments for
dynamic stress
analysis; analogue
methods for
dealing with stress*

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***problems; and
how to select a
method of stress
analysis. This
monograph will be
of use to all
undergraduate and
postgraduate
students who
require a basic
knowledge of
experimental
stress analysis,***

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*and also to
practicing
engineers who
may be concerned
with experimental
investigations in
one way or
another.*

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