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Tensile Testing

Machine TF002

Fabric quality

testing and the

determination of

fabric weight and

width

#textiletesting

#fabrictests Fabric

101: How to ID

Fabric by Fiber,

Weave, and Fire

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Tensile testing of
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Textile Tensile
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Heavy 430 For

Architectural Shade
Fabric

Wet processing of
textile Material

FABRIC WEIGHT
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BURN! How to Tell
if a Fabric is

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skill to identify
fabric! ~~Textile
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And Definition of
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And~~

The biaxial testing
devices and
procedures
presently used in
Europe are
extensively

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discussed, and information is provided on the design and implementation of a biaxial testing rig for architectural fabrics at Politecnico di Milano, which represents a benchmark in the field.

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Biaxial Testing for
Fabrics and Foils:
Optimizing Devices
...

An adequate
analysis of the
fabric ' s bi-
directional
mechanical
characteristics
under all types of
loads is only
possible through a
biaxial test. A

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biaxial rig is a testing machine able to pull both warp and weft directions simultaneously. The test rig should hold the sample and allow elongation in both directions to create a central area, characterised by a uniform stress state, to measure

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Testing For
the elongation in
the warp and weft
directions.

Biaxial Testing for
Fabrics –

Specialised Textiles
Association

The biaxial testing
devices and
procedures
presently used in

Europe are
extensively

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characteristics
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possible through a
biaxial test. A
biaxial rig is a

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testing machine

able to pull both

warp and weft

directions

simultaneously. The

test rig should hold

the sample and

allow elongation in

both directions to

create a central

area, characterised

by a uniform stress

state, to measure

the elongation in

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design and

implementation of a

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fabrics at

Politecnico di

Milano, which

represents a

benchmark in the

field.

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Fabrics and Foils

eBook by Paolo ...

During the biaxial

test, loading and

displacement data is

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directly read out
from the load cells.

In order to measure
the strains in the

fabric, a

stereoscopic Digital
Image Correlation
(DIC) system is

hung

Sciences And

Biaxial testing of
fabric materials and
deriving their ...

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Specimen Material

Types of materials tested in biaxial

loading include soft biological tissues,

silicone elastomers, composites, metal

sheets, films,

coated fabrics, and textiles, all

subjected to orthogonal stress-strain fields. Test

specimens are often

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prepared as
explained in the
section above.

Planar Biaxial

Testing Guide -
ADMET

The bias extension
and the picture
frame tests are
probably the most
popular methods to
characterise shear
behaviour of coated

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fabrics, but the biaxial tests have been increasingly used recently because the same test rig can also be used to evaluate the membrane 's tensile behaviour, and a biaxial pre-tension of the specimen can be applied before the shear loading.

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A new biaxial tensile shear test method to measure shear ...

In the biaxial testing rig familiar to the authors it is the strength of the sample and not that of the material which is determined since the failure always starts from an edge. Another

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method would be the examination of a cylinder which is loaded by an axial compression load.

TESTING
METHODS AND
STANDARDS

The main focus of this project is to investigate the biaxial mechanical properties of coated

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woven fabrics used
in inflated and
tensioned
structures and of
transparent foils
used for building...

(PDF) Biaxial
testing of
architectural
membranes and
foils

fabric used for the
test comes from

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Testing For

one end of the roll.
The construction
company assumes
that the loading

conditions on the
fabric are different
at the end of the
roll than in the
middle of the roll.

The construction
company generally
repeats the uniaxial
test in the middle of
the roll and then

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does a biaxial test
with a specimen
adjoining

Correlation
Between Uniaxial
and Biaxial
Compensation Data

... In Applied
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Technology
A new biaxial test
protocol for
architectural fabrics
is proposed.

Application of

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prestress followed
by mechanical
conditioning
provides repeatable
stress-strain data
suitable for medium
to long...

(PDF) A new
biaxial test protocol
for architectural
fabrics

For further
characterization of

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the material stiffness, biaxial tensile tests are recommended. To quantify the tensile strength of fabrics, two testing methods are available: strip and grab tests.

Uniaxial Strip and Grab Test Methods for Tensile Testing

...

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Based on MSAJ
biaxial testing
procedures, three
different types of
PVC coated fabrics
are tested under
five different biaxial
load ratios, and the
measured stress-
strain data are
applied to calculate
the coefficients in
the equation. After
validation, the

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accuracy of the proposed models is compared with linear orthotropic model.

The nonlinear orthotropic material model describing ... Uniaxial and biaxial tests of a specific material were performed subsequently.

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Based on numerical simulation, the biaxial strength of the fabrics was preliminary investigated. And the correlation between uniaxial and biaxial strength of the material was discussed. The proposed experiments could characterize the

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biaxial... [+]

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Experimental

method for biaxial

tensile strength of

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Reinhardt HW

(1976) On the

biaxial testing and

strength of coated

fabrics. Exp Mech

16(2):71 – 74

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Schmidt FM, Le
Maoult Y, Rachik M,
Abb é F (2001)

Elastomer biaxial
characterization
using bubble
inflation technique.

Biaxial Testing

Apparatuses and
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In this study,
detailed uniaxial

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and biaxial central tearing tests of a type of PVC coated polyester fiber fabric for buildings were carried out. The characteristics of the damage morphology, the formation of the triangle area at the crack tip, crack propagation, and failure modes

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Testing For
the entire
tearing process
were studied.

Foils Optimizing

Devices And

Procedures

This book offers a
well-structured,
critical review of
current design
practice for
tensioned

membrane

structures,

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including a detailed analysis of the experimental data required and critical issues relating to the lack of a set of design codes and testing procedures.

The technical requirements for biaxial testing equipment are analyzed in detail, and aspects that

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need to be considered when developing biaxial testing procedures are emphasized.

The analysis is supported by the results of a round-robin exercise comparing biaxial testing machines that involved four of the main research laboratories in the

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field. The biaxial testing devices and procedures presently used in Europe are extensively discussed, and information is provided on the design and implementation of a biaxial testing rig for architectural fabrics at

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Politecnico di
Milano, which
represents a
benchmark in the
field. The
significance of the
most recent
developments in
biaxial testing is
also explored.

The book contains
14 invited
contributions

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written by
distinguished
authors who
participated in the
Second
International
Conference on
Textile Composites
and Inflated
Structures held in
Stuttgart, 2-4
October 2005. The
book includes state-
of-the-art

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Contributions
written by
international
experts in the field
of design, analysis
and construction of
textile composites
and inflatable
structures. The
different chapters
discuss recent
progress and future
research directions
the field.

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Testing For

This report describes the design, construction and evaluation of an apparatus for the measurement of the behavior of fabrics under biaxial tensile and shear forces.

The instrument was evaluated by the testing of fabrics ranging in weight

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from 34 g/m to 486 g/m, corresponding to material applications ranging from lightweight parachute fabrics to heavyweight ballistic fabrics.

The testwork demonstrates that the instrument, within the limitations of the testing techniques

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developed to date,
can be used to
provide the
information
necessary for the
design of structural
fabrics, the drafting
of improved
procurement
specifications for
fabrics and
qualification of new
fabrics for military
applications.

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Technical problems and limitations of the instrument and of the testing techniques which require further study are discussed.

(Author).

Sciences And

This report discusses the design, operation, and purpose of a

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new biaxial tensile test instrument to measure the stress-strain behavior of fabrics. The report also presents the stress-strain test results on three air-supported tent fabrics performed with the new test instrument. A correlation and comparison is made

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between these data and previous work performed with other tensile test equipment.
(Author).

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Smart coatings can produce coatings that offer above and beyond the normal functions of a coating, these range from improving the

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performance of
fabrics, producing
new forms of
materials to
providing
decoration. This
book reviews a
variety of topics
about textile
coatings and
laminates and aims
to provide a
stimulus for
developing new and

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Improved textile products. The first part of the book introduces the fundamentals of textile coatings and laminates, addressing general areas such as coating and laminating processes and techniques, as well as base fabrics and

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their interaction in coated fabrics. Part two discusses different types of smart and intelligent coatings and laminates for textiles. Topics include microencapsulation technology, conductive coatings, breathable coatings and phase change

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Materials and their application in textiles. With its highly distinguished editor and array of international contributors, Smart textile coatings and laminates is a valuable reference book for chemists, textile technologists, fibre scientists, textile

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Engineers For all those wishing to improve and understand the developments in textile coating and laminating technology. It will also be suitable for researchers in industry or academia. Reviews a number of issues surrounding textile

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Coatings and
laminates Discusses
the fundamentals of
textile coatings and
laminates And
addressing
processes and
techniques

Examines types of
smart and
intelligent coatings
and laminates for
textiles, including
microencapsulation

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technology,
conductive and
breathable coatings
Fibres And
Fibers Optimizing
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Non-crimp fabric
(NCF) composites
are reinforced with
mats of straight
(non-crimped)
fibres, giving them
such advantages as
strength, ease of

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handling and low manufacturing costs. Non-crimp fabric composites provides a comprehensive review of the use of NCF composites, their manufacture and applications in engineering. Part one covers the manufacture of non-crimp fabrics,

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including also topics such as structural stitching and automated defect analysis. Part two goes on to discuss the manufacture of non-crimp fabric composites, with chapters covering such topics as deformability and permeability of NCF. Part three

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focuses on the properties of NCF composites, with chapters on stiffness and strength, damage progression and fatigue. Finally, part four covers the applications of NCF composites, including chapters on the aerospace and automotive

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industries as well as wind turbines and helicopter applications. The book concludes with a discussion of cost analysis of NCF composites in engineering applications. With its distinguished editor and international team of expert

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Contributors, Non-crimp fabric composites is an essential reference for composite manufacturers and structural and mechanical engineers in industries using NCF composites, as well as academics with a research interest in the field.

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Provides a comprehensive review of the use of NCF composites, their manufacture and applications in engineering
Reviews the manufacture of non-crimp fabrics, including also topics such as structural stitching and automated defect

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Analysis Examines
the properties of
NCF composites
considering
stiffness and
strength, damage
progression and
fatigue

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An experimental
investigation was
conducted to

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develop a test method and hardware for the purpose of characterizing the material behavior of coated glass fabrics for application in large roof structures. Because of the biaxial nature of stresses in fabric structures, an internally

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Testing For
pressurized
cylinder specimen
was designed for
use in a

hydraulically
actuated (MTS)
testing machine.
Biaxial cylinder
fabrication and
appropriate testing
procedures were
developed. Stress-
strain and strength
characteristics

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Testing For
Fabric And
Folds Optimizing
were determined
for various fabric
material types and
material lots.

Biaxial monotonic,
step loading, stress
rupture, and
dynamic fatigue
loading conditions
were studied.

Combined biaxial
tensile plus shear
loading were
assessed by testing

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cylinders under

biaxial and

superimposed

torsion loading

conditions. The

strength

characteristics of

damaged fabric

materials were also

extensively

assessed.

There have been

important recent

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developments in the production and application of three dimensional fabrics.

These 3D textile structures have great potential for new fabrics and textile applications.

3D fibrous assemblies summarises some key developments and their

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Applications For the
textile industry.

The book begins
with an introductory
chapter which

defines the
concepts and types
of 3D fibrous

assemblies. The
book then discusses
how 3D fabrics can
be applied in textile
products. These
range from

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Composites and
protective clothing
to medical textiles.

The remainder of
the book reviews
the two main 3D
fabrics; multi-axial
warp knitted fabrics
and multi-layer
woven fabrics.

Themes such as
structure,
manufacture,
properties and

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Modelling are considered for both fabrics. Written by a distinguished author, 3D fibrous assemblies is a pioneering guide for a broad spectrum of readers, ranging from fibre scientists and designers through to those involved in research and development of

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new generation
textile products.
Presents exciting
opportunities for
the creation of new
textiles through the
use of three
dimensional textile
fibre assemblies A
comprehensive
account of the
different types of
3D fabrics and their
associated

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structure, For
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Fabrics And
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modelling Examples
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