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50 years of

experience in World

developing
mathematical models

to bridge the gaps

separating the Series

understanding and

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... the inability of
nonlinear equations ...

~~Army senior research
scientist retires~~

Chinese researchers
from the Technical

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and Chemistry (TIPC)

of the Chinese
Academy and

Sciences (CAS) have
proposed a new ...

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tunneling in
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and eigenvectors.

Laplace transforms.

Nonlinear equations
and stability; phase
portraits.

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several complementary

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simulation using non-
linear computational
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Dynamic systems
theory (DST) is an~~

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area of mathematics
that offers useful
principles, concepts
and tools for

understanding and
modelling complex,
dynamic and non-
linear scenarios of ...
which can be ...

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Bhaganagar joined
the UTSA faculty in
2009, after earning
her doctorate in
Mechanical

Engineering ... for
studying the nonlinear
instability
mechanisms leading
to turbulence for
aerospace

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applications ...

UTSA engineering
researcher elected
AIAA Associate
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Ordinary and partial
differential equation
solving, linear
algebra, vector
calculus, complex
variables and ...

Advanced topics
include nonlinear

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partial differential
equations, and
relativistic and ...

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Although the term is
used synonymously
with pseudoelasticity,
we adhere to the
definition that
pseudoelastic alloys

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nonlinear unloading
behaviors ... so does
the need for
increasingly ...

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from nonlinear
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presence and
absence of
mechanical vibrations

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using a novel physics-
based continuum
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Education Plan~~

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calculus to weigh the pros and cons of various ... With ultrafast lasers, the peak power density is so high that non-linear absorption phenomena take place, such as multi-photo ...

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Micromachining

Various complex deformations can also be programmed by spatially controlling the director

configuration in LCEs

(7). LCEs are

therefore attracting

considerable attention

as a promising

material for ...

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liquid-like behavior of
liquid crystal
elastomers

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Phenomena and
Complex Systems,
Université Libre de
Bruxelles ... and
photonics (13, 14) to
mechanical systems
(15). These
complementary and
versatile platforms
offer the ...

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Probing topology by
“heating”: Quantized
circular dichroism in
ultracold atoms

However, this century
will lead to
technological
innovations that are
inherently based on
the quantum-
mechanical ... causing
this nonlinear effect,
the absorption is

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highly localized at the
laser ...

Optical

Manufacturing:

Femtosecond-laser
direct-written

waveguides produce
quantum circuits in
glass

Cobalt was selected
for its combination of
excellent mechanical
and magnetic

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properties ... The wire sensors exhibit a wide force sensing range due to a non-linear effect that they call “self-tunable ...

~~Researchers Develop Hairy Skin to Enhance Robot Touch Sensing~~
Knowing that Tesla has been developing a steer-by-wire system, we thought

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that the automaker
wouldn't risk bringing
the controversial yoke
steering wheel to
market without a non-
linear steering ...

~~Tesla is sticking with
yoke steering wheel;
Elon Musk says
progressive steering
is still years away
nonlinear aeroelastic
prediction; adaptive~~

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aeroelastic structures;
aeroelastic design;
and reduced order
modelling. Mechanical
engineering PhD
graduates are found
in a variety of careers
all over the ...

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