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systems that are
inherently
multifunctional our
research community
has successfully
deployed several
visionary concepts to
create a new breed of
multifunctional

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structures, including
"autonomic" structures
that can sense,
diagnose and respond
to external stimuli,
"adaptive" structures
allowing
reconfiguration of
shape, mechanical and
other functional
properties, and "self-
sustaining" systems
with integrated energy
storage and harvesting
capabilities.

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Multifunctional and lightweight are critical attributes and technology themes required by deep space mission architectures. Multifunctional materials and structural systems will provide reductions in mass and volume for next generation vehicles.

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Multi-function structure. From Wikipedia, the free encyclopedia. Jump to navigation Jump to search. Multi-function material is a composite material. The traditional approach to the development of structures is to address the loadcarrying

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function and other requirements separately. Recently, however, there has been increased interest in the development of load-bearing materials and structures which have integral non-load-bearing functions, guided by recent discoveries about how

Advanced

**Multi-function
structure -**

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The development of multi-functional materials and structures (MFMS), at the micro- and nano-scale levels, has grown rapidly due to the requirement of increasing safety margins for all infrastructure, biomedical and engineering elements. Multi-functional material systems are capable of performing

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Multifunctional
Materials and Their
Impact on
Sustainability.
Multifunctional
materials are the
materials that perform
multiple functions in a

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system due to their
specific properties.

Multifunctional
materials can be both
naturally existing and
specially engineered.

For example, some
traditional materials
that provide, for
instance, high
mechanical strength
can be modified at the
nanoscale to attain
other properties such
as energy absorption,
self-healing, etc.

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4.6. Multifunctional Materials and Their Impact on ...

A multifunctional material system should integrate in itself the functions of two or more different components and/or composites/materials/structures increasing the total system's efficiency. An example of the potential advantages of the use of MFMS can be seen, for example, in electric-

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propelled unmanned a
ir vehicles (UAVs).

Multifunctional Material Systems: A state-of-the-art ...

2. Synthesize, process
and fabricate novel
multifunctional
materials/components
to solve compelling
challenge problems -

Lead by example:
change the way
structures are
designed, built and
used - Demonstrate

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multi-functionality
value to DoD systems
Synthetic
Multifunctional
Materials: Program
Plan

Synthetic Multifunctional Materials: Structure

The Center for
Multifunctional
Materials and
Structures (MFMS) is
one of these centers
whose primary
research focus is in

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linking design with materials, manufacturing, analysis, and testing to satisfy various functions imposed on structures and systems by mono-disciplinary and multi-disciplinary domains.

SmartState™ Center for Multifunctional Materials and ...

The development of multifunctional

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materials and structures is receiving increasing interest for many applications and industries; it is a promising way to increase system-wide efficiency and improve the ability to meet environmental targets. However, quantifying the advantages of a multifunctional solution over monofunctional systems can be ...

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Multifunctional
Materials and
Intelligent Structures.

Several of our faculty
are working at the
forefront of materials
and structures
development. Our
Structures and
Composites Laboratory
(SACL) has led the
design of integrated
structures,
development of smart
structures,

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quantification of the
damage tolerance of
composite structures
and development of
advanced
multifunctional
materials.

**Multifunctional
Materials and
Intelligent
Structures ...**

In this paper, a
multifunctional design
method for
heterogeneous cellular
structures is proposed.

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To introduce this method, Function-Performance-Property-Design parameter model is proposed at first. This proposed model can help designers to analyze the complex relations between focused functions and their related design parameters.

**Multifunctional
design of
heterogeneous**

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cellular structures

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Structures 5a.
CONTRACT NUMBER.
5b. GRANT NUMBER.
5c. PROGRAM
ELEMENT NUMBER. 6.
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7. PERFORMING ...

(PDF)

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Soft materials with a liquid component are an emerging paradigm in materials design.

The incorporation of a liquid phase, such as water, liquid metals, or complex fluids, into solid materials imparts unique properties and characteristics that emerge as a result of the dramatically different properties of the liquid and solid.

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**Solid-Liquid
Composites for Soft
Multifunctional
Materials ...**

The Gordon Research
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Materials and
Structures aims to
extend and accelerate
interdisciplinary
research activities in
this emerging field,
which incorporates
mechanics, materials
science, engineering
science, physics,

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chemistry and biology.
Multifunctional design
encompasses
materials, structures
and/or material
systems that have the
ability to perform
multiple functions
through judicious
combinations of
structural properties
and at least one
additional functional ...

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Multi-functional
Materials and
Structures. Integration
of functions on
materials level and on
structural level can
help the creation of
more efficient technical
solutions for a wide
variety of industrial
and consumer
products.

Developments in
material science and
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combined with the ...

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