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Deployable structures—objects that transition from a compact state to an expanded one—are used everywhere from backyards to Mars. But as anyone who has ever struggled to open an uncooperative folding ...

Kiriform structures harness buckling for stable, deployable structures
NASA is developing new deployable structures and materials technologies for solar sail propulsion systems destined for future low-cost deep space missions. Just as a sailboat is powered by wind in a ...

NASA Developing New Deployable Structures And Materials Technologies For Solar Sail Propulsion Systems

The book also delves into the area of deployable structures, that is, designs whose applications are heavily dependent on packaging and folding theories. Origami concepts are playing an ...

Forms and Concepts for Lightweight Structures

Deployable structures -- objects that transition from a compact state to an expanded one -- are used everywhere from backyards to Mars. But

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as anyone who has ever struggled to open an ...

Pop-up coffee table -- no assembly required

The compliant (high strain to failure) nature of the conformal ablative materials will allow easier integration of the TPS with the underlying aeroshell structure ... gap filler design. The second DACC ...

Deployable Aeroshell

The combat abilities are divided in two categories: deployable structures like turrets ... How much variation in design and aesthetic can players expect from each of the worlds in the game?

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In-house developed matrices reinforced with carbon fiber will spend six months attached to the ISS to better understand and improve their functionality in extreme space conditions.

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But we can do something to perhaps completely eliminate the need for fuel tanks being incorporated in the design of future ... on what it calls “ new deployable structures and materials ...

New Solar Sail Booms Could Forever Change the Future of Space Exploration

Photo Credit: Custom Technologies LLC Modular deployable bridges are a key asset in military ... U.S.). However, the ability to repair such structures in the field has been an issue hindering the ...

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Easy-to-use kits enable infield repair of composite structures

On a small island off the west coast of Galway, Ireland, sits one of the latest projects completed by designer Jordan Ralph. The simple, cylindrical cabin—known as Studio Drop—was created for a ...

An Off-Grid Artist ' s Retreat Pops Up on an Island Near Ireland

The U.S. Marine Corps is divesting itself of heavy, hard-to-transport tanks and massively arming its smaller, lighter and more deployable ... approach to force design and development.

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With good seatbelts and frontal airbags already standard and side-curtain airbags appearing in more and more vehicles, safety engineers have started to focus more of their design skills on ... These ...

Safety Nets

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NASA Developing New Deployable Structures And Materials Technologies For Solar Sail Propulsion Systems

Pop-up coffee table -- no assembly required Kiriform structures

harness buckling for stable, deployable structures Date: June 28, 2021

Source: Harvard John A. Paulson School of Engineering and ...

Exercises and Solutions in Statistical Theory helps students and scientists obtain an in-depth understanding of statistical theory by working on and reviewing solutions to interesting and challenging exercises of practical importance. Unlike similar books, this text

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incorporates many exercises that apply to real-world settings and provides much more thorough solutions. The exercises and selected detailed solutions cover from basic probability theory through to the theory of statistical inference. Many of the exercises deal with important, real-life scenarios in areas such as medicine, epidemiology, actuarial science, social science, engineering, physics, chemistry, biology, environmental health, and sports. Several exercises illustrate the utility of study design strategies, sampling from finite populations, maximum likelihood, asymptotic theory, latent class analysis, conditional inference, regression analysis, generalized linear models, Bayesian analysis, and other statistical topics. The book also contains references to published books and articles that offer more information about the statistical concepts. Designed as a supplement for advanced undergraduate and graduate courses, this text is a valuable source of classroom examples, homework problems, and examination questions. It is also useful for scientists interested in enhancing or refreshing their theoretical statistical skills. The book improves readers' comprehension of the principles of statistical theory and helps them see how the principles can be used in practice. By mastering the theoretical statistical strategies necessary to solve the exercises, readers will be prepared to successfully study even higher-level statistical theory.

This book discusses the innovative design, cable-net design and analysis, control, deployment, development and applications of large space-deployable antennas. Drawing on the authors' own work in

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this field, it describes and analyzes various typical deployable antennas, membrane antennas and super-large space-assembled antennas, while chiefly focusing on mesh antennas due to their wide range of applications. It also investigates forming – finding design and the analysis of cable-truss structures for high-precision reflector antennas, as well as deployment process control and deployment reliability based on flexible multibody dynamic analysis. The book covers not only mechanical structure performance, but also electromagnetic performance realization and stability. Lastly, it proposes an electrical equivalent method for mesh reflector antennas and a coupling model for the structural displacement field and electrostatic field. Given the nature of its content, the book is intended for researchers, graduate students and engineers in the field of space antennas.

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