

Scaled Composites

Institute of the Society of the Plastics Industry

Popular Science ,1990-02 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

SpaceShipOne Dan Linehan,2011-06-13 “One of the most remarkable accomplishments in our conquest of gravity.” – Sir Arthur C. Clarke In April, 2003, a company called Scaled Composites introduced SpaceShipOne to the world. SpaceShipOne: An Illustrated History chronicles the development of the world’s first commercial manned space program—a program that includes an airborne launcher (the White Knight), a space ship (SpaceShipOne), rocket propulsion, avionics, simulator, and full ground support. With ample illustrations, photographs, and behind-the-scenes information, SpaceShipOne provides a full picture of this classified project. The story of SpaceShipOne combines the adventurous spirit of Charles Lindbergh, the entrepreneurial drive of Howard Hughes, and the urgency of the space race at the height of the Cold War.

Safety in Aviation and Astronautics Simon Ashley Bennett,2021-11-25 Aviation safety and astronautics safety are taught as technical subjects informed, for the most part, by quantitative methods. Here, as in other fields, safety is often framed as an engineering problem requiring mathematics-informed solutions. This book argues that the socio-technical approach, encompassing theories grounded in sociology and psychology – such as active learning, high-reliability organising, mindfulness, leadership, followership and empowerment – has much to contribute to the safety performance of these vital industries. It sets out to inspire professionals to embed the whole-system approach into design and operation regimen and describes the reputational and financial benefits to manufacturers and operators that accrue from adopting a whole-system approach to design and operation. The book defines the socio-technical approach to risk assessment and management in aviation and astronautics (astronautics is taken to mean the design and operation of vehicles for use beyond the earth’s atmosphere), then demonstrates the strengths and weaknesses of this approach through case studies of, for example, the Boeing 737MAX-8 accidents and the loss of the SpaceShipTwo orbiter. Grounding the discourse in familiar case studies engages busy aviation and astronautics professionals. The book’s arguments are explained in such a way that they are readily comprehensible to non-experts. Key concepts are defined within a glossary. Photographs, charts and diagrams illustrate key points. Written for a practitioner audience, specifically aviation and astronautics professionals, this book provides a valuable and accessible social sciences perspective on safety that will be directly relevant to their roles.

Aircraft DK,2022-04-26 Take an action-packed flight through the history of aircraft and discover the intrepid pioneers who made a dream reality Uncover the engineering behind more than 800 aircraft models, from military jets to commercial planes. This visual history book captures the fascinating story of airplanes and aviation, and how their groundbreaking discovery has influenced the 21st Century. Inside the pages of this aircraft book, you’ll discover: • The history of military and commercial aircraft from all over the world, decade by decade, to the present day in stunning visual detail • Comprehensive catalogs highlight the most important aircraft of each period along with their specifications and unique features • Showcases on particularly celebrated aircraft – such as the Supermarine Spitfire and Concorde – in beautifully photographed “virtual tour” features • The stories of the engineers and manufacturers that created marques like Boeing and Airbus Take to the skies Modern flight has opened the world up to new opportunities and paved the way for the development of advanced research and technology. But, what made it so groundbreaking? This book uncovers the stories behind the first airplane models, the development of flight, and brings you to present-day marvels such as the Gypsy Moth and Supermarine Spitfire. The Aircraft Book is filled with stats, facts, and photographs that create a visual tour and allows you to see inside key commercial and military aircraft models from the exterior to the cockpit. Aviation enthusiasts will also be captivated by the manufacturer of aircraft engines and how famous models like Boeing and Lockheed became household names. Love history? Discover even more with DK! DK's The Definitive Visual History series is an iconic celebration of design and history. Packed with fascinating facts and statistics, these high-quality visual guides cover everything from history and notable designs to the people and technology that made it possible. Books in this series include The Car Book, The Train Book, The Tank Book, and so much more.

Multi-Scale Continuum Mechanics Modelling of Fibre-Reinforced Polymer Composites Wim Van Paepegem,2020-11-25 Multi-scale modelling of composites is a very relevant topic in composites science. This is illustrated by the numerous sessions in the recent European and International Conferences on Composite Materials, but also by the fast developments in multi-scale modelling software tools, developed by large industrial players such as Siemens (Virtual Material Characterization toolkit and MultiMechanics virtual testing software), MSC/e-Xstream (Digimat software), Simulia (micromechanics plug-in in Abaqus), HyperSizer (Multi-scale design of composites), Altair (Altair Multiscale Designer) This book is intended to be an ideal reference on the latest advances in multi-scale modelling of fibre-reinforced polymer composites, that is accessible for both (young) researchers and end users of modelling software. We target three main groups: This book aims at a complete introduction and overview of the state-of-the-art in multi-scale modelling of composites in three axes: • ranging from prediction of homogenized elastic properties to nonlinear material behaviour • ranging from geometrical models for random packing of unidirectional fibres over meso-scale geometries for textile composites to orientation tensors for short fibre composites • ranging from damage modelling of unidirectionally reinforced composites over textile composites to short fibre-reinforced composites The book covers the three most important scales in multi-scale modelling of composites: (i) micro-scale, (ii) meso-scale and (iii) macro-scale. The nano-scale and related atomistic and molecular modelling approaches are deliberately excluded, since the book wants to focus on continuum mechanics and there are already a lot of dedicated books about polymer nanocomposites. A strong focus is put on physics-based damage modelling, in the sense that the chapters devote attention to modelling the different damage mechanisms (matrix cracking, fibre/matrix debonding, delamination, fibre fracture,...) in such a way that the underlying physics of the initiation and growth of these damage modes is respected. The book also gives room to not only discuss the finite element based approaches for multi-scale modelling, but also much faster methods that are popular in industrial software, such as Mean Field Homogenization methods (based on Mori-Tanaka and Eshelby solutions) and variational methods (shear lag theory and more advanced theories). Since the book targets a wide audience, the focus is put on the most common numerical approaches that are used in multi-scale modelling. Very specialized numerical methods like peridynamics modelling, Material Point Method, eXtended Finite Element Method (XFEM), isogeometric analysis, SPH (Smoothed Particle Hydrodynamics),... are excluded. Outline of the book The book is divided in three large parts, well balanced with each a similar number of chapters:

Flying Magazine ,1989-02

Astronauts For Hire Erik Seedhouse,2012-02-22 'Astronauts For Hire' is a comprehensive and authoritative study of the increasing need for commercial astronauts. Erik Seedhouse provides unique insights into the burgeoning new field of commercial space operation and the individuals who will run these missions. Section I begins by describing how Astronauts for Hire (A4H) was created in 2010 by Brian Shiro, a highly qualified NASA astronaut candidate, and a group of other astronaut candidates. Erik introduces A4H's vision for opening the space frontier to commercial astronauts and describes the tantalizing science opportunities offered when suborbital and orbital trips become routine. Section II describes the vehicles astronauts will use. Anticipation is on the rise for the new crop of commercial suborbital and orbital spaceships that will serve the scientific and educational market. These reusable rocket-propelled vehicles are expected to offer quick, routine, and affordable access to the edge of space, along with the capability to carry research and educational crew members. The quick turnaround of these vehicles is central to realizing the profit-making potential of repeated sojourns by astronauts to suborbital and

orbital heights. Section III describes the various types of missions this new corps of astronauts will fly and who will hire them. For example, suborbital flights may be used to do high altitude astronomy, life science experiments, and microgravity physics. This section continues with an examination of the types of missions that will accelerate human expansion outward, to Exploration Class missions through lunar bases, the establishment of interplanetary spaceports, and outposts on the surface of Mars. Along the way it describes the tasks commercial astronauts will perform, ranging from mining asteroids to harvesting helium.

SPI/CI FirstSource Directory Institute of the Society of the Plastics Industry, 1998-01-16

The Privatization of Space Exploration Lewis D. Solomon, 2017-09-08 Space was at the center of America's imagination in the 1960s. President John F. Kennedy's visionary statement captured the mood of the day: We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard. The Apollo mission's success in July 1969 made almost anything seem possible, but the Cold War made space flight the province of governmental agencies in the United States. When the Apollo program ended in 1972, space lost its hold on the public interest, as the great achievements wound down. Entrepreneurs are beginning to pick up the slack-looking for safer, more reliable, and more cost effective ways of exploring space. Entrepreneurial activity may make create a renaissance in human spaceflight. The private sector can energize the quest for space exploration and shape the race for the final frontier. Space entrepreneurs and private sector firms are making significant innovations in space travel. They have plans for future tourism in space and safer shuttles. Solomon details current US and international laws dealing with space use, settlement, and exploration, and offers policy recommendations to facilitate privatization. As private enterprise takes hold, it threatens to change the space landscape forever. Individuals are designing spacecraft, start-up companies are testing prototypes, and reservations are being taken for suborbital space flights. With for-profit enterprises carving out a new realm, it is entirely possible that space will one day be a sea of hotels and/or a repository of resources for big business. It is important that regulations are in place for this eventuality. These new developments have great importance, huge implications, and urgency for everyone.

Popular Science, 2004-11 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Proceedings of Mechanical Engineering Research Day 2017 Mohd Fadzli Bin Abdollah, Tee Boon Tuan, Mohd Azli Salim, Mohd Zaid Akop, Rainah Ismail, Haslinda Musa, 2017-05-29 This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017.

Burt Rutan's Race to Space Dan Linehan, 2011-07-07 The author of SpaceShipOne chronicles the significant achievements of the Ansari X Prize-winning aerospace innovator, offering insight into his pioneering vision for enabling space exploration and the processes of his history-making designs, including Voyager and SpaceShipTwo.

Technological Innovation and Prize Incentives Luciano Kay, 2012-01-01 The recent renaissance in the use of prizes to spur innovation and extraordinary novel performance warrants close attention. Luciano Kay does so through a series of compelling case studies which shows the potential of prizes, the range of factors that influence their performance and the importance of understanding their non-pecuniary dimensions, even when there is a substantial purse. This is an important contribution to the innovation literature. David J. Teece, University of California, Berkeley, US In the last decade innovation prizes have caught the imagination of policy makers and rich donors alike; those who actually care about the process and outcome of prizes and not only the hype, would do well to read Luciano's new book. Dan (Danny) Breznitz, Georgia Institute of Technology, US Inducement prizes in which cash rewards are offered to motivate the attainment of specific targets have long been used to stimulate scientific discovery and technology research and development. This volume presents an empirical investigation of the effect of these prizes on innovation. In this in-depth study, Luciano Kay focuses on three recent cases of prize competitions in the aerospace industry: the Google Lunar X Prize, the Ansari X Prize and the Northrop Grumman Lunar Lander Challenge. Using a combination of real-time and historical analysis based on personal interviews, workplace visits and questionnaire and document data analysis, the author examines the particular dynamics of the prize phenomenon and offers a comprehensive discussion of the potential of prizes to induce innovation. This fascinating volume also sets out a systematic method to studying prize incentives, offering a concrete innovation model and case study design approach that will prove highly useful to further research efforts in the field. Scholars, policymakers and corporate officials interested in incentives for innovation and the practical implementation of prize competitions will find this an invaluable resource. Potential prize sponsors and entrepreneurs, professionals and other individuals or organizations interested in participating in such competitions will also find much of interest in this groundbreaking book.

Burt Rutan's Race to Space Dan Linehan, 2011-07-17 Years ago, Burt Rutan told a reporter for Popular Mechanics, "If we make a courageous decision like the goal and program we kicked off for Apollo in 1961, we will see our children or grandchildren in outposts on other planets." Legendary science-fiction writer Arthur C. Clark would later recall Rutan's quote in a piece he wrote about SpaceShipOne and comment, "Fortunately, we need not rely solely on governments for expanding humanity's presence beyond the Earth." Burt Rutan's Race to Space showcases Rutan's herculean efforts to do just that. Smithsonian's Air and Space Museum displays his most celebrated achievements, including SpaceShipOne, which won the coveted \$10 million Ansari X Prize for private spaceflight; Voyager, which hangs with SpaceShipOne in the Milestones of Flight gallery; the Virgin Atlantic GlobalFlyer; and the VariEze. His many aerospace innovations preceding his most recently conceived designs, SpaceShipTwo and WhiteKnightTwo, chronicle a progressive, step-by-step attempt to break barriers with engineering know-how and a wondrous imagination, all the while remaining on the forefront of the burgeoning private spaceflight industry. Rutan's X Prize triumph and subsequent spacecraft designs are not a beginning, nor an end, but are steps in Burt Rutan's continuing adventure to expand humanity's presence beyond the Earth and into space.

Virgin Galactic Erik Seedhouse, 2015-02-23 Thirty years ago when Sir Richard Branson called up Boeing and asked if they had a spare 747, few would have predicted the brash entrepreneur would so radically transform the placid business of air travel. But today, Branson flies airlines on six continents, employs hundreds of jets and, in 2014, was predicting that his spaceship company - Virgin Galactic - would soon open the space frontier to commercial astronauts, payload specialists, scientists and space tourists. With more than 600 seats sold at \$250,000 each, what started off as a dream to send people just for the excitement to look back and marvel at Earth, was on the cusp of finally being turned into a business. Then, on October 21, 2014, tragedy struck. SpaceShipTwo was on its most ambitious test flight to date. Seconds after firing its engine, Virgin Galactic's spaceship was breaking through the sound barrier. In just the three seconds that it took for the vehicle to climb from Mach 0.94 to Mach 1.02, co-pilot Mike Alsbury made what many close to the event believe was a fatal mistake that led to his death and the disintegration of SpaceShipTwo. Miraculously, the pilot, Peter Siebold, survived the 16-km fall back to Earth. Soon after the event Branson vowed to continue his space tourism venture in spite of this. Already a second SpaceShipTwo is being built, and ticket-holders eagerly await the day when Virgin Galactic offers quick, routine and affordable access to the edge of space. This book explains the hurdles Virgin Galactic had and still has to overcome en route to developing suborbital space travel as a profitable economic entity, and describes the missions that will be flown on board SpaceShipTwo Mk II, including high-altitude science studies, astronomy, life sciences, and microgravity physics.

Spacecraft Michael H. Gorn, 2018-09-04 Spacecraft takes a long look at humankind's attempts and advances in leaving Earth through incredible illustrations and authoritatively written profiles on Sputnik, the International Space Station, and beyond. In 1957, the world looked on with both uncertainty and amazement as the Soviet Union

launched Sputnik 1, the first man-made orbiter. Sputnik 1 would spend three months circling Earth every 98 minutes and covering 71 million miles in the process. The world’s space programs have traveled far (literally and figuratively) since then, and the spacecraft they have developed and deployed represent almost unthinkable advances for such a relatively short period. This ambitiously illustrated aerospace history profiles and depicts spacecraft fromSputnik 1 through the International Space Station, andeverything in between, including concepts that have yet to actually venture outside the Earth’s atmosphere. Illustrator and aerospace professional Giuseppe De Chiara teams up with aerospace historian Michael Gorn to present a huge, profusely illustrated, and authoritatively written collection of profiles depicting and describing the design, development, and deployment of these manned and unmanned spacecraft. Satellites, capsules, spaceplanes, rockets, and space stations are illustrated in multiple-view, sometimes cross-section, and in many cases shown in archival period photography to provide further historical context. Dividing the book by era, De Chiara and Gorn feature spacecraft not only from the United States and Soviet Union/Russia, but also from the European Space Agency and China. The marvels examined in this volume include the rockets Energia, Falcon 9, and VEGA; the Hubble Space Telescope; the Cassini space probe; and the Mars rovers, Opportunity and Curiosity. Authoritatively written and profusely illustrated with more than 200 stunning artworks, Spacecraft: 100 Iconic Rockets, Shuttles, and Satellites That Put Us in Space is sure to become a definitive guide to the history of manned space exploration.

Space-Based Technologies and Commercialized Development: Economic Implications and Benefits Tkatchova, Stella,2011-04-30 This book introduces the concept of space-based technology commercialization and offers a first-time analysis of plausible opportunities, examining the overall marketability of tourism in outer space, including business case studies on celestial solar power and space debris that demonstrate the potential of cosmic technologies in the context of interplanetary business--Provided by publisher.

A Perfect Mess Eric Abrahamson,David H. Freedman,2007-01-03 Ever since Einstein's study of Brownian Motion, scientists have understood that a little disorder can actually make systems more effective. But most people still shun disorder-or suffer guilt over the mess they can't avoid. No longer! With a spectacular array of true stories and case studies of the hidden benefits of mess, A Perfect Mess overturns the accepted wisdom that tight schedules, organization, neatness, and consistency are the keys to success. Drawing on examples from business, parenting, cooking, the war on terrorism, retail, and even the meteoric career of Arnold Schwarzenegger, coauthors Abrahamson and Freedman demonstrate that moderately messy systems use resources more efficiently, yield better solutions, and are harder to break than neat ones.Applying this idea on scales both large (government, society) and small (desktops, garages), A Perfect Mess uncovers all the ways messiness can trump neatness, and will help you assess the right amount of disorder for any system. Whether it's your company's management plan or your hallway closet that bedevils you, this book will show you why to say yes to mess.

Moldless Composite Sandwich Aircraft Construction Burt Rutan,2005

Space Safety and Human Performance Barbara G. Kanki,Jean-Francois Clervoy,Gro Sandal,2017-11-10 Space Safety and Human Performance provides a comprehensive reference for engineers and technical managers within aerospace and high technology companies, space agencies, operators, and consulting firms. The book draws upon the expertise of the world’s leading experts in the field and focuses primarily on humans in spaceflight, but also covers operators of control centers on the ground and behavior aspects of complex organizations, thus addressing the entire spectrum of space actors. During spaceflight, human performance can be deeply affected by physical, psychological and psychosocial stressors. Strict selection, intensive training and adequate operational rules are used to fight performance degradation and prepare individuals and teams to effectively manage systems failures and challenging emergencies. The book is endorsed by the International Association for the Advancement of Space Safety (IAASS). Provides information on critical aspects of human performance in space missions Addresses the issue of human performance, from physical and psychosocial stressors that can degrade performance, to selection and training principles and techniques to enhance performance Brings together essential material on: cognition and human error; advanced analysis methods such as human reliability analysis; environmental challenges and human performance in space missions; critical human factors and man/machine interfaces in space systems design; crew selection and training; and organizational behavior and safety culture Includes an endorsement by the International Association for the Advancement of Space Safety (IAASS)

The Enigmatic Realm of **Scaled Composites**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Scaled Composites** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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