



3D Printing in Space (Paperback)

By National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board

National Academies Press, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book. Additive manufacturing has the potential to positively affect human spaceflight operations by enabling the in-orbit manufacture of replacement parts and tools, which could reduce existing logistics requirements for the International Space Station and future long-duration human space missions. The benefits of in-space additive manufacturing for robotic spacecraft are far less clear, although this rapidly advancing technology can also potentially enable space-based construction of large structures and, perhaps someday, substantially in the future, entire spacecraft. Additive manufacturing can also help to reimagine a new space architecture that is not constrained by the design and manufacturing confines of gravity, current manufacturing processes, and launch-related structural stresses. The specific benefits and potential scope of additive manufacturing remain undetermined. The realities of what can be accomplished today, using this technology on the ground, demonstrate the substantial gaps between the vision for additive manufacturing in space and the limitations of the technology and the progress that has to be made to develop it for space use. 3D Printing in Space evaluates the prospects of in-space additive manufacturing. This report examines the various technologies available and currently in development, and considers...



READ ONLINE
[4.73 MB]

Reviews

The ideal pdf i at any time go through. It can be loaded with knowledge and wisdom Its been developed in an exceedingly straightforward way and it is just soon after i finished reading through this pdf by which basically altered me, affect the way i really believe.

-- **Seth Treutel II**

Completely essential go through pdf. It really is simplistic but excitement within the fifty percent in the ebook. Your lifestyle period will be change when you full reading this pdf.

-- **Shaun Bernier II**

Other eBooks



[Fifty Years Hence, or What May Be in 1943](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****. Fifty Years Hence is a quasi-fictional work by Robert Grimshaw, a professional engineer, with the intent of making a...



[On Becoming Baby Wise, Book Two: Parenting Your Five to Twelve-Month Old Through the Babyhood Transition](#)

Parent-Wise Solutions, 2012. Paperback. Book Condition: New. BRAND NEW, Perfect Shape, No Black Remainder Mark, Fast Shipping With Online Tracking, International Orders shipped Global Priority Air Mail, All orders handled with care and shipped promptly in secure packaging, we ship Mon-Sat and send...



[A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half](#)

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****. The ultimate learn-by-doing approach Written for beginners, useful for experienced developers who want to sharpen their skills and don't mind...



[Environments for Outdoor Play: A Practical Guide to Making Space for Children \(New edition\)](#)

SAGE Publications Ltd. Paperback. Book Condition: new. BRAND NEW, Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition), Theresa Casey, 'Theresa's book is full of lots of inspiring, practical, 'how to go about it ideas' coupled with...



[Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep](#)

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children unwind and go to sleep. The underlying...



[Read Write Inc. Phonics: Grey Set 7 Non-Fiction 5 a Place in Space: The Moon](#)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 197 x 88 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match children's growing...