ISSDC 官方推荐资料

ISSDC 图书馆内有超过 200 本先关图书，有一半以上来自于每个国际决赛的联合创办人。这些书可以提供非常多样的化的信息，对整个人类的国际太空城市设计、太空的环境与资源、太空飞船结构设计、人体危害等都有一定的帮助。以下列举的 ISSDC 官方列举的最常用最有效果的资料与书单，以供参赛的学生参考。

The Space Settlement Design Competition library includes more than 200 books, over half of which are brought by the co-founders to each International Finalist Competition.

Books in the library provide information on a wide variety of topics important to the design of human communities in space, including environments and resources in space, design of spacecraft and structures in space, hazards to humans, infrastructure requirements and aesthetic factors in design of communities for humans, and use of computers and robots.

Some of our favorites in the library are listed below; these are the books we consult most often when preparing Competition materials and answering participant questions. The Competition organizers know that your team can create a winning Qualifying Competition proposal without access to these books (indeed, some are out of print and are difficult to find). This list is provided to give you an indication of the written materials that are available, the types of information that can be useful to you in assembling your design, and topics that the judges feel are important.

Book List 书单

1. Space Settlements - A Design Study. NASA SP-413, 1977 U.S. Government Printing Office
2. Space Resources and Space Settlements. NASA SP-428, 1979 U. S. Government Printing Office
3. Space Mission Analysis and Design. Larson / Wertz, 1992 Microcosm, Inc.
4. Introduction to Space - The Science of Spaceflight. Thomas D. Damon, 1989 Orbit Book Company / 1995 Krieger Publishing Company
5. Keys to Space - An Interdisciplinary Approach to Space Studies. Houston / Rycroft, 1999 McGraw-Hill
6. How Spacecraft Fly. Graham Swinerd, 2008 Praxis Publishing Ltd.
7. The Space Environment - Implications for Spacecraft Design. Alan C. Tribble, 2003 Princeton University Press
8. Entering Space - Creating a Spacefaring Civilization. Robert Zubrin, 1999 Tarcher / Putnam
9. Colonies in Space. T. A. Heppenheimer, 1977 Stackpole Books
10. The High Frontier (3rd Edition). Gerard K. O'Neill, 2000 Apogee Books
11. Space Enterprise. Philip Robert Harris, 2009 Springer – Praxis
12. Encyclopedia of the Solar System. Weissman / McFadden / Johnson, 1999 Academic Press

13. Introduction to the Space Environment (Second Edition). Thomas F. Tascione, 1994 Krieger Publishing Company
14. Astronomy Today (Third Edition). Chaisson / McMillan, 1999 Prentice Hall
15. The Lunar Base Handbook. Peter Eckart, 1999 McGraw-Hill
16. Lunar Outpost--The Challenges of Establishing a Human Settlement on the Moon. Erik Seedhouse, 2009 Springer-Praxis
17. The Moon - Resources, Future Development, and Colonization, 2nd Edition. Schrunk / Sharpe / Cooper / Thangavelu, 2008 Springer – Praxis
18. Lunar Sourcebook - a user's guide to the moon. Heiken / Vaniman / French, 1991 Cambridge University Press
19. The Case for Mars. Robert Zubrin, 1996 The Free Press (Simon & Schuster, Inc.)
20. Strategies for Mars: A Guide to Human Exploration. Stoker / Emmart (Editors), 1996 American Astronautical Society
21. On to Mars - Colonizing a New World. Zubrin / Crossman, 2002 Apogee Books
22. Asteroids - Their Nature and Utilization (Second Edition). Charles T. Kowal, 1998 Wiley / Praxis
23. Mining the Sky - Untold Riches from the Asteroids, Comets, and Planets. John S. Lewis, 1996 Addison-Wesley Publishing Company
24. Understanding Space - An Introduction to Astronautics. Jerry Jon Sellers, 2000 McGraw-Hill
25. Elements of Space Technology. Rudolf X. Meyer, 1999 Academic Press
26. Systems Engineering Principles and Practice. Kossiakoff / Sweet, 2003 John Wiley & Sons, Inc.
27. Spacecraft Systems Engineering. Peter Fortescue / John Stark, 1995 John Wiley and Sons
28. Elements of Spacecraft Design. Charles D. Brown, 2002 American Institute of Aeronautics and Astronautics
29. Space Vehicle Design, Second Edition. Griffith/French, 2004 American Institute of Aeronautics and Astronautics
30. Structures Technology for Future Aerospace Systems. Ahmed K. Noor (Editor), 2000 American Institute of Aeronautics and Astronautics
31. Space Physiology and Medicine. NASA SP-447, 1982 U.S. Government Printing Office
32. Space Psychology and Psychiatry, 2nd Edition. Kanas / Manzey, 2008 Microcosm – Springer
33. Living and Working in Space (Second Edition). Philip R. Harris, 1996 Wiley / Praxis
34. Spaceflight Life Support and Biospherics. Peter Eckart, 1996 Microcosm Press / Kluwer Academic Publishers
35. Solar Power Satellites. Glaser/Davidson/Csigi, 1998 Wiley-Praxis
36. Visual Thinking for Architects and Designers. Kasprisin / Pettinari, 1995 Van Nostrand Reinhold
37. Engineering a New Architecture. Tony Robbin, 1996 Yale University Press
38. How Buildings Work - The Natural Order of Architecture. Edward Allen, 1995 Oxford University Press
39. The Next American Metropolis - Ecology, Community, and the American Dream. Peter Calthorpe, 1993 Princeton Architectural Press
40. Structures - The Way Things Are Built. Nigel Hawkes, 1990 / 1993 Macmillan Publishing Company

41. Materials and Design - The Art and Science of Material Selection in Product Design. Ashley/Johnson, 2002 Butterworth – Heinemann
42. Airport Engineering. Norman Ashford / Paul H. Wright, 1992 John Wiley and Sons
43. Infrastructure. Brian Hayes, 2005 W.W. Norton & Company
44. Transportation Engineering (PE Exam Depth Guide). James T. Ball, 2001 McGraw-Hill
45. Introduction to Communications Technologies: A Guide for Non-Engineers. Jones / Kovac, 2003 CRC Press
46. Communications Systems & Networks. Ray Horak, 1997 M & T Books
47. Telecommunications Essentials. Lillian Goleniewski, 2002 Addison-Wesley
48. Satellite Communications Systems (Second Edition). M. Richharia, 1999 McGraw – Hill
49. Water Treatment and Waste Recovery - Advanced Technology and Applications. Nicholas P. Cheremisinoff / Paul N. Cheremisinoff, 1993 P T R Prentice Hall
50. Handbook of Water Use and Conservation. Amy Vickers, 2001 Water Plow Press
51. Composting and Recycling Munícpal Solid Waste. Diaz / Savage / Eggerth / Golueke, 1993 Lewis Publishers
52. Lunar Base Agriculture: Soils for Plant Growth. D. W. Ming / D. L. Henninger, 1989 American Society of Agronomy
53. Horticulture - Principles and Practices. George Acquaah, 1999 Prentice Hall
54. Agroecology - The Science of Sustainable Agriculture (Second Edition). Miguel A. Altieri, 1995 Westview Press
55. Organic Farming--Everything You Need to Know. Peter V. Fossel, 2007 Voyageur Press
56. Livestock Feeds & Feeding (Third Edition). D. C. Church, 1991 Prentice Hall
57. The Origins and Technology of the Advanced Extravehicular Space Suit. Gary L. Harris, 2001 American Astronautical Society
58. Nutrition for Dummies. Carol Ann Rinzler, 1999 Hungry Minds, Inc.
59. Architectural Representation Handbook. Paul Laseau, 2000 McGraw-Hill
60. The Timeless Way of Building. Christopher Alexander, 1979 Oxford University Press
61. A Pattern Language. Alexander/Ishikawa/Silverstein, 1977 Oxford University Press
62. Designing Places for People. C. M. Deasy / Thomas E. Lasswell, 1985 Whitney Library of Design
63. The Not So Big House. Sarah Susanka, 1998 The Taunton Press
64. Inside the Not So Big House. Sarah Susanka / Marc Vassallo, 2005 The Taunton Press
65. Smart Homes for Dummies. Brieve / Hunley, 1999 IDG Books Worldwide
66. How Computers Work. Ron White, 1997 Ziff-Davis Press
67. Computers in the Human Context. Tom Forester, 1989 MIT Press
68. Humans and Automation: System Design and Research Issues. Thomas B. Sheridan, 2002 John Wiley & Sons
69. The Essential Guide to Telecommunications, Third Edition. Annabel Z. Dodd, 2002 Prentice Hall
70. Network Analysis, Architecture, and Design. James D. McCabe, 2003 Morgan Kauffmann Publishers
71. Anatomy of a Robot. Charles M. Bergen, 2003 McGraw-Hill
72. Industrial Robotics: Selection, Design, and Maintenance. Harry Colestock, 2005 McGraw-Hill
73. Robots in Space. Launius / McCurdy, 2008 The Johns Hopkins University Press Press

74. Nanotechnology - A Gentle Introduction to the Next Big Idea. Ratner / Ratner, 2003 Prentiss Hall
75. Nanotechnology Demystified. Williams / Adams, 2007 McGraw-Hill
76. Nanofuture: What's Next for Nanotechnology. J. Storrs Hall, PhD, 2005 Prometheus Books
77. Marks' Standard Handbook for Mechanical Engineers. (various editors and editions), McGraw-Hill
78. Perry's Chemical Engineers' Handbook. Perry/Green/Maloney, 1984 McGraw-Hill
79. Materials Handbook (Eleventh Edition). Brady / Clauser, 1977 McGraw-Hill
80. Project Management. Harold Kerzner, 2003 John Wiley & Sons
81. System Engineering Management. Benjamin S. Blanchard, 2004 John Wiley & Sons
82. Field Engineer's Manual, 3rd Edition. Robert O. Parmley, 2002 McGraw-Hill
83. AIAA Aerospace Design Engineers Guide, Fifth Edition. ADEG Subcommittee, 2003 American Institute of Aeronautics and Astronautics

Articles 文章

ISSDC 组委会从期刊出版物等寻找的比较有帮助的补偿材料供参赛者参考：

The Competition organizers also bring copies of pertinent articles from periodical publications to the Finalist Competition and regional Competitions, for use by the participants. The following are some of our favorite sources of supplemental materials:

1. Aerospace America American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191-4344
2. Ad Astra National Space Society, 600 Pennsylvania Ave., SE, Suite 201, Washington, D.C. 20003-4316
3. The Futurist World Future Society, 7910 Woodmont Ave., Suite 450, Bethesda, MD 20814