

Space Modeling with SolidWorks and NX

By Jože Duhovnik, Ivan Demšar, Primož Drešar



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Through a series of step-by-step tutorials and numerous hands-on exercises, this book aims to equip the reader with both a good understanding of the importance of space in the abstract world of engineers and the ability to create a model of a product in virtual space – a skill essential for any designer or engineer who needs to present ideas concerning a particular product within a professional environment. The exercises progress logically from the simple to the more complex; while Solid Works or NX is the software used, the underlying philosophy is applicable to all modeling software. In each case, the explanation covers the entire procedure from the basic idea and production capabilities through to the real model; the conversion from 3D model to 2D manufacturing drawing is also clearly explained. Topics covered include modeling of prism, axisymmetric, symmetric and sophisticated shapes; digitization of physical models using modeling software; creation of a CAD model starting from a physical model; free form surface modeling; modeling of product assemblies following bottom-up and top-down principles; and the presentation of a product in accordance with the rules of technical documentation. This book, which includes more than 500 figures, will be ideal for students wishing to gain a sound grasp of space modeling techniques. Academics and professionals will find it to be an excellent teaching and research aid, and an easy-to-use guide.

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Bibliography

- Sales Rank: #4292570 in Books
- Published on: 2014-07-15
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.13" w x 6.14" l, .0 pounds
- Binding: Hardcover
- 490 pages

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About the Author

Jože Duhovnik is full professor of Engineering Design, founder and head of LECAD (Laboratory for Computer Aided Design) at University of Ljubljana, Slovenia. His research focuses on theory of design, development technic, project leading, information flow in CAD process, geometrics design and models of global product realization.

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