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It provides an easy API to create Wavefront's OBJ files. Developers can now add vertices, polygons and external materials to define a 3D object. Developers can now save a 3D scene in the FBX 7.2 ...

~~Aspose Pty Ltd~~

According to AST, two-thirds of helicopter crash-related injuries and deaths result from upper torso flailing, leading to

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striking or being struck by objects or structures ... face
information in DXF ...

~~Engineering Productivity Kit—CAD/CAM/CAE~~

Details can be found in Example 3.8 in the "Examples"
section. data; input _row_ \$10. choco gumdr ichoco igumdr
type \$ _rhs_; datalines; object .25 .75 -100 -75 max .
cooking 15 40 0 0 le 27000 ...

~~An Integer Programming Example~~

An improved Draft/Flange tool provides grab handles to push
and pull depths and angles, for injection molding applications.
Alias/Wavefront, www.aw.sgi.com. Enter 612 ...

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OpenGL, which has been bound in C, is a seasoned graphics library for scientists and engineers. As we know, Java is a rapidly growing language becoming the de facto standard of Computer Science learning and application development platform as many undergraduate computer science programs are adopting Java in place of C/C++. Released by Sun Microsystems in June 2003, the recent OpenGL binding with Java, JOGL, provides students, scientists, and engineers a new venue of graphics learning, research, and applications. Overview This book aims to be a shortcut to graphics theory and programming in JOGL. Specifically, it covers OpenGL programming in Java, using JOGL, along with concise computer graphics theories. It covers all graphics basics and

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several advanced topics without including some implementation details that are not necessary in graphics applications. It also covers some basic concepts in Java programming for C/C++ programmers. It is designed as a textbook for students who know programming basics already. It is an excellent shortcut to learn 3D graphics for scientists and engineers who understand Java programming. It is also a good reference for C/C++ graphics vi Preface programmers to learn Java and JOGL. This book is a companion to Guide to Graphics Software Tools (Springer-Verlag, New York, ISBN 0-387-95049-4), which covers a smaller graphics area with similar examples in C but has a comprehensive list of graphics software tools. Organization and Features This book concisely introduces graphics theory and programming in

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Java with JOGL.

Kelly L. Murdock's Autodesk 3ds Max 2016 Complete Reference Guide is a popular book among users new to 3ds Max and is used extensively in schools around the globe. The success of this book is found in its simple easy-to-understand explanations coupled with its even easier to follow tutorials. The tutorials are laser focused on a specific topic without any extra material, making it simple to grasp difficult concepts. The book also covers all aspects of the software, making it a valuable reference for users of all levels. The Complete Reference Guide is the ultimate book on 3ds Max, and like Autodesk's 3D animation software, it just gets better and better with each release. Whether you're new to 3ds Max or

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an experienced user, you'll find everything you need in this complete resource. The book kicks off with a getting started section, so beginners can jump in and begin working with 3ds Max right away. Experienced 3ds Max users, will appreciate advanced coverage of features like crowd simulation, particle systems, radiosity, MAXScript and more. Over 150 tutorials – complete with before and after files – help users at all levels build real world skills.

Time compression technologies such as rapid prototyping and manufacturing offer enormous potential benefits. Where time can be saved in the development of new or modified products, expenditure can also be reduced. Swifter development can also give a competitive edge to those using

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these techniques. However there are a number of different systems and processes that can be used. Ensuring that the most appropriate rapid prototyping and manufacturing technology is applied to a problem is vital to the success of a project. The case studies, compiled by the experienced team of the Warwick Manufacturing Group at the University of Warwick in the UK, represent a range of different real experiences drawn from a variety of industries, using a range of materials and processes. CONTENTS INCLUDE: Overview of product design and development Computer-aided design and rapid prototyping The introduction of CAD/CAM in the ceramics industry Product design and development – reverse engineering Reducing the risk of new product development by utilizing rapid prototyping technologies Stress analysis

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using rapid prototyping techniques Case studies in rapid prototyping and manufacturing techniques—flow visualization using rapid prototype models Overview of utilizing bureau facilities Using bureau services Running an internal rapid prototyping bureau Overview of rapid casting techniques An alternative route to metal components for prototype and low-volume production Rapid prototyping in pattern making and foundry applications Rapid prototyping – enhancing product development at Parker Hannifin Cast tooling with rapid prototype patterns Overview of rapid tooling The role of rapid immediate production tooling (IPT) in new product development Rapid tooling – cast resin and sprayed metal tooling.

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Virtual Reality is clearly interdisciplinary research. It has, not only Information Technology importance but social, educational, economical importance too. It combines multiple disciplines for the development of virtual reality systems in which the user has the immersive feeling of being in the real world. Virtual reality has several applications in almost all fields of real life. The most typical fields for the application of virtual reality are health-care, engineering and game industry. This book may be a solid basis for the novice and advanced engineers who would like to develop user friendly Virtual Environments for education, rehabilitation and other applications of Virtual Reality. Our book provides a resource for wide variety of people including academicians, designers, developers, educators, engineers, practitioners, researchers,

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and graduate students.

Geographic information is a key element for our modern society. Put simply, it is information whose spatial (and often temporal) location is fundamental to its value, and this distinguishes it from many other types of data, and analysis. For sustainable development, climate change or more simply resource sharing and economic development, this information helps to facilitate human activities and to foresee the impact of these activities in space as well as, inversely, the impact of space on our lives. The International Symposium on Spatial Data Handling (SDH) is a primary research forum where questions related to spatial and temporal modelling and analysis, data integration, visual representation or semantics

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are raised. The first symposium commenced in 1984 in Zurich and has since been organised every two years under the umbrella of the International Geographical Union Commission on Geographical Information Science (<http://www.igugis.org>). Over the last 28 years, the Symposium has been held in: st 1 - Zürich, 1984 nd 2 - Seattle, 1986 rd 3 - Sydney, 1988 th 4 - Zurich, 1990 th 5 - Charleston, 1992 th 6 - Edinburgh, 1994 th 7 - Delft, 1996 th 8 - Vancouver, 1998 th 9 - Beijing, 2000 th 10 - Ottawa, 2002 th 11 - Leicester, 2004 th 12 - Vienna, 2006 th This book is the proceedings of the 13 International Symposium on Spatial Data Handling.

This book constitutes the refereed proceedings of the 11th IMA International Conference on the Mathematics of

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Surfaces, held in Loughborough, UK in September 2005. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions. Among the topics addressed are Voronoi diagrams, linear systems, curvatures on meshes, approximate parameterization, condition numbers, pythagorean hodographs, artifacts in B-spline surfaces, Bézier surfaces of minimal energy, line subdivision, subdivision surfaces, level sets and symmetry, the topology of algebraic surfaces, embedding graphs in manifolds, recovery of 3D shape from shading, finding optimal feedrates for machining, and improving of range data.

Comprehensive, yet concise, 3D Printing for the Radiologist presents an overview of three-dimensional printing at the

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point of care. Focusing on opportunities and challenges in radiology practice, this up-to-date reference covers computer-aided design principles, quality assurance, training, and guidance for integrating 3D printing across radiology subspecialties. Practicing and trainee radiologists, surgeons, researchers, and imaging specialists will find this an indispensable resource for furthering their understanding of the current state and future outlooks for 3D printing in clinical medicine. Covers a wide range of topics, including basic principles of 3D printing, quality assurance, regulatory perspectives, and practical implementation in medical training and practice. Addresses the challenges associated with 3D printing integration in clinical settings, such as reimbursement, regulatory issues, and training. Features

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concise chapters from a team of multidisciplinary chapter authors, including practicing radiologists, researchers, and engineers. Consolidates today's available information on this timely topic into a single, convenient, resource.

The 2nd edition of this integrated guide explains and lists readily available graphics software tools and their applications, while also serving as a shortcut to graphics theory and programming. It grounds readers in fundamental concepts and helps them use visualization, modeling, simulation, and virtual reality to complement and improve their work.

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Provides instructions for creating computer games using the Java platform, including information on 2D and 3D-programming, creating sound and audio effects, and working with side-scroller and isometric tile games.

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