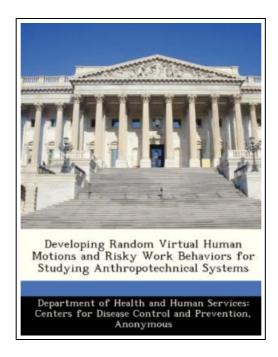
Developing Random Virtual Human Motions and Risky Work Behaviors for Studying Anthropotechnical Systems



Filesize: 4.29 MB

Reviews

A new electronic book with a new perspective. Better then never, though i am quite late in start reading this one. Your life period will be change the instant you comprehensive looking at this pdf.

(Dr. Constantin Marks II)

DEVELOPING RANDOM VIRTUAL HUMAN MOTIONS AND RISKY WORK BEHAVIORS FOR STUDYING ANTHROPOTECHNICAL SYSTEMS



Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. A computer model was created that generates contact data by means of simulation while altering several variables associated with the machine and its operator. These variables include work environment, the operator s anthropometry, work posture, choice of risky work behavior, and the machine s appendage velocity. In the model, a contact means two or more objects intersecting or touching each other, e.g., the appendage colliding with the operator s hand, arm, head, or leg. This report documents the code development of special features of the computer model, random virtual human motions and behaviors, which made it possible for researchers to study hazardous interactions, such as contacts between the operator and machine. The original idea for random virtual human motions began with the need for a model that, when simulated, would experimentally mimic machine and human actions that could cause actual injuries or fatalities in the workplace. Injury incident investigation reports do not usually contain enough information to aid in studying this problem, and lab experiments with human subjects are also not feasible because of safety issues and ethical issues. Early investigation that evaluated the feasibility of random motions resulted in a primary programming structure and building blocks for code expansion. Basic motions and standard derivation data provided random parameters for the operator s movement in the random motion code. Experimenting with basic motions in preliminary models helped researchers devise a random motion technique that worked with xyz motion parameter values from basic motion parameters. Both values were the building blocks used in motion commands that comprised the core of the random motion code. When the code is executed in a three-dimensional computer model, it generates realistic starting positions...

Read Developing Random Virtual Human Motions and Risky Work Behaviors for Studying Anthropotechnical Systems Online

Download PDF Developing Random Virtual Human Motions and Risky Work Behaviors for Studying Anthropotechnical Systems

Other eBooks



Ninja Adventure Book: Ninja Book for Kids with Comic Illustration: Fart Book: Ninja Skateboard Farts (Perfect Ninja Books for Boys - Chapter Books for Kids Age 8 - 10 with Comic Pictures Audiobook with Book)

Createspace, United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.BONUS - Includes FREE Dog Farts Audio Book for Kids Inside! For a...

Read Document »



Young and Amazing: Teens at the Top High Beginning Book with Online Access (Mixed media product)

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2014. Mixed media product. Book Condition: New. 204 x 140 mm. Language: English . Brand New Book. Cambridge Discovery Education Interactive Readers are the next generation of graded readers -...

Read Document »



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Read Document »



Alfred s Kid s Guitar Course 1: The Easiest Guitar Method Ever!, Book, DVD Online Audio, Video Software

Alfred Music, United States, 2016. Paperback. Book Condition: New. Language: English . Brand New Book. Alfred s Kid s Guitar Course is a fun method that teaches you to play songs on the guitar right...

Read Document »



Weebies Family Halloween Night English Language: English Language British Full Colour

 $Create space, United States, 2014. \ Paperback. \ Book Condition: New. \ 229 x 152 \ mm. \ Language: English. \ Brand New Book ***** Print on Demand ******. Children's Weebies Family Halloween Night Book 20 starts to teach Pre-School and...$

Read Document »



Kingfisher Readers: Record Breakers - the Biggest (Level 3: Reading Alone with Some Help) (Unabridged)

Pan Macmillan. Paperback. Book Condition: new. BRAND NEW, Kingfisher Readers: Record Breakers - the Biggest (Level 3: Reading Alone with Some Help) (Unabridged), Claire Llewellyn, For the first time, Kingfisher brings its expertise in beautifully-designed,

Save Document »



Kingfisher Readers: Dinosaur World (Level 3: Reading Alone with Some Help) (Unabridged)

Pan Macmillan. Paperback. Book Condition: new. BRAND NEW, Kingfisher Readers: Dinosaur World (Level 3: Reading Alone with Some Help) (Unabridged), Claire Llewellyn, For the first time, Kingfisher brings its expertise in beautifully-designed, trusted non-fiction to

Save Document »



Kingfisher Readers: Volcanoes (Level 3: Reading Alone with Some Help) (Unabridged)

Pan Macmillan. Paperback. Book Condition: new. BRAND NEW, Kingfisher Readers: Volcanoes (Level 3: Reading Alone with Some Help) (Unabridged), Claire Llewellyn, For the first time, Kingfisher brings its expertise in beautifully-designed, trusted non-fiction to the

Save Document »



Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral

Createspace, United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Black White Illustration Version! BONUS - Includes FREE Dog Fart Audio Book for

Save Document »



Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Save Document »