

TAYLOR & FRANCIS

SDC Publications 2018

Welcome

The core offering of SDC software related textbooks are in the areas of CAD (computer-aided design) and FEA (finite element analysis). Nearly all of these software packages are updated annually, and a print or electronic textbook is published for each software update.

SDC textbooks provide tutorial style material that outlines the objectives for the chapter and includes quizzes, exercises, and/or problems at the end of the chapter.

Nearly all of the textbooks follow this approach, and instructor resources, such as lecture slides, are available. Some of the textbooks even include video material, and these videos reflect the changing learning habits of students. While some videos may be general in nature, giving the student an introduction that does not necessarily follow the print material, other videos are presentations of tutorials that do appear in the print version of the book.

The SDC content is a rich collection of student essentials in the CAD, CAM, FEA, and Engineering Graphics areas.

Taylor & Francis Books are now pleased to announce the worldwide distribution (outside of The Americas) of SDC Publications and look forward to receiving your orders.

For more information or to place an order, please contact your local sales representative.

Contents

AUTODESK	2
3D Animation & Autodesk Fusion	2
AutoCAD Architecture & Engineering	3
AutoCAD	4
Autodesk Inventor	6
Autodesk Revit	8
SOLIDWORKS	10
SOLIDWORKS	10
SOLIDWORKS Simulation	12
OTHER TITLES FROM SDC PUBLICATIONS	13
Creo	13
MATLAB	14
NX 12	15
Index	16

Kelly L. Murdock's Autodesk 3ds Max 2019 Complete Reference Guide



Kelly L. Murdock

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 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.

SDC Publications

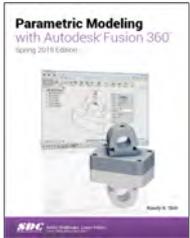
Market: CAD CAE CAM - Computing & Information Technology

August 2018: 279 x 216: 1250pp

Pb: 978-1-630-57180-1: **£61.00**

* For **full contents** and more information, visit: www.routledge.com/9781630571801

Parametric Modeling with Autodesk Fusion 360



Randy Shih

Parametric Modeling with Autodesk Fusion 360 contains a series of thirteen tutorial style lessons designed to introduce Autodesk Fusion 360, solid modeling and parametric modeling techniques and concepts. This book introduces Autodesk Fusion 360 on a step-by-step basis, starting with constructing basic shapes, all the way through to the creation of assembly drawings and 3D printing your own designs.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

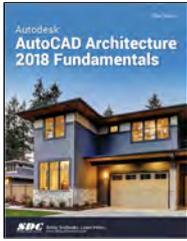
June 2018: 279 x 216: 416pp

Pb: 978-1-630-57199-3: **£54.00**

* For **full contents** and more information, visit: www.routledge.com/9781630571993

11th Edition

Autodesk AutoCAD Architecture 2018 Fundamentals



Elise Moss

This fundamentals text introduces you to Autodesk's AutoCAD Architecture 2018 software. The book covers the Layer Manager, Design Center, Structural Members, Doors, Windows, and Walls. Step-by-step lessons take the reader from creation of a site plan, floor plan, and space planning, all the way through to the finished building - a standard three bedroom, two bathroom residence. By the end of the text, you should feel comfortable enough to create a standard model, and even know how to customize the interface for your own use. This text provides you with in-depth coverage of toolbars, dialog boxes and commands.

Educators will appreciate the quizzes and practice exam included in the text.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

March 2018: 279 x 216: 340pp

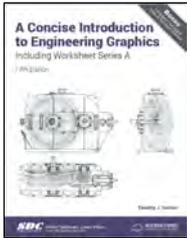
Pb: 978-1-630-57116-0: **£54.00**

Prev. Ed Pb: 978-1-630-57032-3

* For full contents and more information, visit: www.routledge.com/9781630571160

5th Edition

A Concise Introduction to Engineering Graphics including Worksheet Series A



Timothy Sexton

A Concise Introduction to Engineering Graphics is a focused book designed to give you a solid understanding of how to create and read engineering drawings. It consists of thirteen chapters that cover all the fundamentals of engineering graphics. Included with your purchase of A Concise Introduction to Engineering Graphics is a free digital copy of Technical Graphics.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

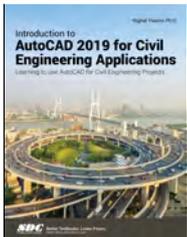
January 2018: 279 x 216: 272pp

Pb: 978-1-630-57129-0: **£86.95**

Prev. Ed Pb: 978-1-585-03584-7

* For full contents and more information, visit: www.routledge.com/9781630571290

Introduction to AutoCAD 2019 for Civil Engineering Applications



Nighat Yasmin

This book provides you with a clear presentation of the theory of engineering graphics and the use of AutoCAD 2019 as they pertain to civil engineering applications. This combination of theory and its practical application will give you the knowledge and skills necessary to create designs that are accurate and easily understood by others.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

September 2018: 279 x 216: 800pp

Pb: 978-1-630-57186-3: **£57.00*** For full contents and more information, visit: www.routledge.com/9781630571863

AutoCAD 2019 for the Interior Designer



Dean Muccio

The emphasis of this book is on easy to understand descriptions and instructions, allowing the non-technical, artistic, visual learning Interior Design student to quickly get past the fear of using the computer to produce drawings. The focus is entirely on the use of AutoCAD for the Interior Design field and not simply architectural drawings.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 450pp

Pb: 978-1-630-57177-1: **£51.00**

* For full contents and more information, visit: www.routledge.com/9781630571771

AutoCAD 2019 Tutorial Second Level 3D Modeling



Randy Shih

The primary goal of *AutoCAD 2019 Tutorial Second Level 3D Modeling* is to introduce the aspects of computer based three dimensional modeling. This text is intended to be used as a training guide for both students and professionals.

SDC Publications

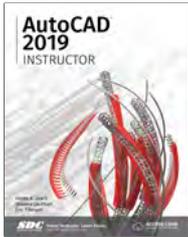
Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 400pp

Pb: 978-1-630-57194-8: **£51.00**

* For full contents and more information, visit: www.routledge.com/9781630571948

AutoCAD 2019 Instructor



James A. Leach, Shawna Lockhart and Eric Tilleson

This book is your *AutoCAD 2019 Instructor*. The objective of this book is to provide you with extensive knowledge of AutoCAD, whether you are taking an instructor-led course or learning on your own.

SDC Publications

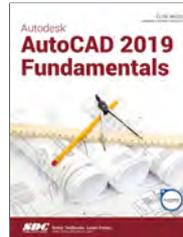
Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 1250pp

Pb: 978-1-630-57184-9: **£64.00**

* For full contents and more information, visit: www.routledge.com/9781630571849

Autodesk AutoCAD 2019 Fundamentals



Elise Moss

Autodesk AutoCAD 2019 Fundamentals is designed to be used during instructor led training in an eight week course. It is an introductory level textbook intended for new AutoCAD 2019 users. This book covers all the fundamental skills necessary for effectively using AutoCAD and will provide a strong foundation for advancement.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 550pp

Pb: 978-1-630-57182-5: **£51.00**

* For full contents and more information, visit: www.routledge.com/9781630571825

AutoCAD 2019 Tutorial First Level 2D Fundamentals



Luke Jumper and Randy H. Shih

The primary goal of *AutoCAD 2019 Tutorial First Level 2D Fundamentals* is to introduce the aspects of Computer Aided Design and Drafting (CADD). This text is intended to be used as a training guide for students and professionals. This text covers AutoCAD 2019 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings.

SDC Publications

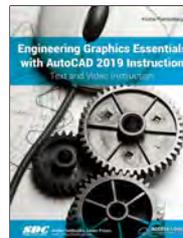
Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 450pp

Pb: 978-1-630-57188-7: **£54.00**

* For full contents and more information, visit: www.routledge.com/9781630571887

Engineering Graphics Essentials with AutoCAD 2019 Instruction



Kirstie Plantenberg

Engineering Graphics Essentials with AutoCAD 2019 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of AutoCAD 2019. This book features independent learning material containing supplemental content to further reinforce these principles.

SDC Publications

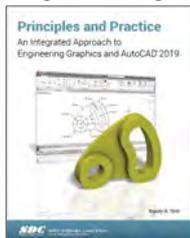
Market: CAD CAE CAM - Computing & Information Technology

August 2018: 279 x 216: 950pp

Pb: 978-1-630-57191-7: **£63.00**

* For full contents and more information, visit: www.routledge.com/9781630571917

Principles and Practice: An Integrated Approach to Engineering Graphics and AutoCAD 2019



Randy Shih

The primary goal of *Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2019* is to introduce the aspects of engineering graphics with the use of modern Computer Aided Design/Drafting software - AutoCAD 2019. This text is intended to be used as a training guide for students and professionals. The chapters in the text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in depth discussions

of CAD techniques.

SDC Publications

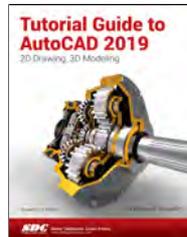
Market: CAD CAE CAM - Computing & Information Technology

August 2018: 279 x 216: 600pp

Pb: 978-1-630-57189-4: **£55.00**

* For full contents and more information, visit: www.routledge.com/9781630571894

Tutorial Guide to AutoCAD 2019



Shawna Lockhart

Tutorial Guide to AutoCAD 2019 provides a step-by-step introduction to AutoCAD with commands presented in the context of each tutorial. In fifteen clear and comprehensive chapters, author Shawna Lockhart guides you through all the important commands and techniques in AutoCAD 2019, from 2D drawing to solid modeling and finally finishing with rendering. In each lesson, the author provides step-by-step instructions with frequent illustrations showing exactly what appears on the AutoCAD screen. Later, individual steps are no longer provided, and you are asked to apply what you've learned by completing sequences on your own.

SDC Publications

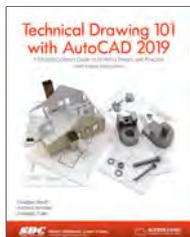
Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 700pp

Pb: 978-1-630-57185-6: **£55.00**

* For full contents and more information, visit: www.routledge.com/9781630571856

Technical Drawing 101 with AutoCAD 2019



Ashleigh Fuller, Antonio Ramirez and Douglas Smith

Technical Drawing 101 covers topics ranging from the most basic, such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5-2009 Dimensioning and Tolerancing standard. But unlike the massive technical drawing reference texts on the market, *Technical Drawing 101* aims to present just the right mix of information and projects that can be reasonably covered by faculty, and assimilated by students, in one semester. Both mechanical and architectural projects are introduced to capture the interest of

more students and to offer a broader appeal.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 550pp

Pb: 978-1-630-57201-3: **£57.00**

* For full contents and more information, visit: www.routledge.com/9781630572013

Tools for Design Using AutoCAD 2019 and Autodesk Inventor 2019



Randy Shih

Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and shows how they can be used in design, both separately and in combination with each other.

SDC Publications

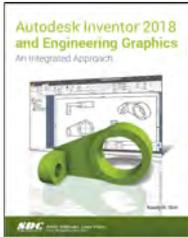
Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 650pp

Pb: 978-1-630-57198-6: **£57.00**

* For full contents and more information, visit: www.routledge.com/9781630571986

Autodesk Inventor 2018 and Engineering Graphics



Randy Shih

Autodesk Inventor 2018 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2018. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

January 2018: 704pp

Pb: 978-1-630-57113-9: **£96.95**

* For full contents and more information, visit: www.routledge.com/9781630571139

Autodesk Inventor 2019



L. Scott Hansen

The philosophy behind this book is that learning computer aided design programs is best accomplished by emphasizing the application of the tools. Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software program.

SDC Publications

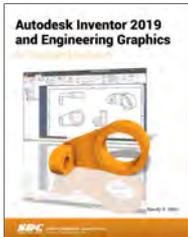
Market: CAD CAE CAM - Computing & Information Technology

March 2018: 279 x 216: 448pp

Pb: 978-1-630-57169-6: **£53.00**

* For full contents and more information, visit: www.routledge.com/9781630571696

Autodesk Inventor 2019 and Engineering Graphics



Randy Shih

Autodesk Inventor 2019 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2019. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 700pp

Pb: 978-1-630-57202-0: **£55.00**

* For full contents and more information, visit: www.routledge.com/9781630572020

Autodesk Inventor 2019 Essentials Plus



Daniel T. Banach and Travis Jones

Autodesk Inventor 2019 Essentials Plus demonstrates critical CAD concepts, from basic sketching and modeling through advanced modeling techniques, as it equips you with the skills to master this powerful professional tool. The book walks you through every component of the software, including the user interface, toolbars, dialogue boxes, sketch tools, drawing views, assembly modeling, and more. Its unique modular organization puts key information at your fingertips, while step-by-step tutorials make it an ideal resource for self-learning.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 608pp

Pb: 978-1-630-57172-6: **£54.00**

* For full contents and more information, visit: www.routledge.com/9781630571726

Learning Autodesk Inventor 2018



Randy Shih

This book will teach you everything you need to know to start using Autodesk Inventor 2018 with easy to understand, step-by-step tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design. An unassembled version of the same robot used throughout the book can be bundled with the book.

No previous experience with Computer Aided Design(CAD) is needed since this book starts at an introductory level.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

March 2018: 512pp

Pb: 978-1-630-57131-3: **£96.95**

* For full contents and more information, visit: www.routledge.com/9781630571313

Learning Autodesk Inventor 2019



Randy Shih

This book will teach you everything you need to know to start using *Autodesk Inventor 2019* with easy to understand, step-by-step tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design. An unassembled version of the same robot used throughout the book can be bundled with the book.

CRC Press

Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 500pp

Pb: 978-1-630-57204-4: **£54.00**

* For full contents and more information, visit: www.crcpress.com/9781630572044

Parametric Modeling With Autodesk Inventor 2019



Randy Shih

Parametric Modeling with Autodesk Inventor 2019 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, to creating multi-view drawings and assembly models.

CRC Press

Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 500pp

Pb: 978-1-630-57197-9: £54.00

* For full contents and more information, visit: www.crcpress.com/9781630571979

Autodesk Revit 2019 Architectural Command Reference



Jeff Hanson and Daniel John Stine

This book provides you with an easy to use reference for all of *Autodesk Revit's Architectural Commands*. This command reference can be used as you are working in the software to help you understand what each command does and how it may be used in your overall workflow. Also included with this book are nearly 100 video tutorials which will further help you master Autodesk Revit.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 752pp

Pb: 978-1-630-57181-8: £59.00

* For full contents and more information, visit: www.routledge.com/9781630571818

Autodesk Revit 2019 Architecture Basics



Elise Moss

Autodesk Revit 2019 Architecture Basics is geared towards beginning architectural students or professional architects who want to get a jump-start into 3D parametric modeling for commercial structures. This book is filled with tutorials, tips and tricks, and will help you get the most out of your software in very little time. The text walks you through from concepts to site plans to floor plans and on through reflected ceiling plans, then ends with an easy chapter on how to customize Autodesk Revit to boost your productivity.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 650pp

Pb: 978-1-630-57174-0: £54.00

* For full contents and more information, visit: www.routledge.com/9781630571740

Autodesk Revit 2019 Architecture Certification Exam Study Guide



Elise Moss

Autodesk Revit 2019 Architecture Certification Exam Study Guide is geared toward users who have been using Autodesk Revit for at least six months and are ready to pursue their official Autodesk Revit certification. This fast paced book will get you ready for the certification exams quickly with fun and easy to follow instructions, covering everything from masses to views to documentation. Autodesk offers two levels of certification exam: the Autodesk Certified User exam and the Autodesk Certified Professional exam.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

September 2018: 279 x 216: 600pp

Pb: 978-1-630-57192-4: £52.00

* For full contents and more information, visit: www.routledge.com/9781630571924

Commercial Design Using Autodesk Revit 2019



Daniel John Stine

Commercial Design Using Autodesk Revit 2019 is designed for the architectural student using Revit 2019. The intent is to provide you with a well-rounded knowledge of tools and techniques for use in both school and industry. This text takes a project based approach to learning Revit's architectural tools in which you develop a three story office building. Each book also includes access to nearly 100 video tutorials designed to further help you master Autodesk Revit. General building codes and industry standard conventions are covered in a way that is applicable to the current exercise.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 612pp

Pb: 978-1-630-57175-7: £54.00

* For full contents and more information, visit: www.routledge.com/9781630571757

Design Integration Using Autodesk Revit 2019



Daniel John Stine

Design Integration Using Autodesk Revit 2019 is designed to provide you with a well-rounded knowledge of Autodesk Revit tools and techniques. All three disciplines of the Revit platform are introduced in this textbook. This approach gives you a broad overview of the Building Information Modeling (BIM) process. The topics cover the design integration of most of the building disciplines: Architectural, Interior Design, Structural, Mechanical, Plumbing and Electrical. Civil is not covered, but adding topography to your model is. Each book also includes access to nearly 100 video tutorials designed to further help you master

Autodesk Revit.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

May 2018: 279 x 216: 896pp

Pb: 978-1-630-57179-5: £59.00

* For full contents and more information, visit: www.routledge.com/9781630571795

Interior Design Using Autodesk Revit 2019



Aaron R. Hansen and Daniel John Stine

The intent of this book is to provide the interior design student a well-rounded knowledge of Autodesk Revit tools and techniques. These skills can then be applied to enhance professional development in both academia and industry. Each book also includes access to nearly 100 video tutorials designed to further help you master Autodesk Revit.

SDC Publications

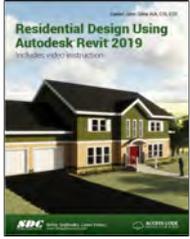
Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 832pp

Pb: 978-1-630-57183-2: £55.00

* For full contents and more information, visit: www.routledge.com/9781630571832

Residential Design Using Autodesk Revit 2019



Daniel John Stine

Residential Design Using Autodesk Revit 2019 is designed for users completely new to Autodesk Revit. This text takes a project based approach to learning Autodesk Revit's architectural tools in which you develop a single family residence all the way to photorealistic renderings like the one on the cover. Each book also includes access to extensive video training designed to further help you master Autodesk Revit.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

May 2018: 279 x 216: 688pp

Pb: 978-1-630-57187-0: **£55.00**

* For full contents and more information, visit: www.routledge.com/9781630571870

8th Edition

Beginner's Guide to SOLIDWORKS 2018 - Level II

Alejandro Reyes

Beginner's Guide to SOLIDWORKS 2018 – Level II starts where *Beginner's Guide – Level I* ends, following the same easy to read style and companion video instruction, but this time covering advanced topics and techniques. The purpose of this book is to teach advanced techniques including sheet metal, surfacing, how to create components in the context of an assembly and reference other components (Top-down design), propagate design changes with SOLIDWORKS' parametric capabilities, mold design, welded structures and more while explaining the basic concepts of each trade to allow you to understand the how and

why of each operation.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

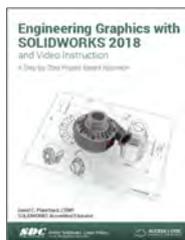
March 2018: 279 x 216: 654pp

Pb: 978-1-630-57166-5: **£57.00**

Prev. Ed Pb: 978-1-630-57064-4

* For full contents and more information, visit: www.routledge.com/9781630571665

9th Edition

Engineering Graphics with SOLIDWORKS 2018 and Video Instruction

David Planchard

Engineering Graphics with SOLIDWORKS 2018 and Video Instruction is written to assist students, designers, engineers and professionals who are new to SOLIDWORKS. Desired outcomes and usage competencies are listed for each project. Know your objectives up front. Follow the step-by step procedures to achieve your design goals. Work between multiple documents, features, commands, and properties that represent how engineers and designers utilize SOLIDWORKS in industry. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers,

department managers, vendors, and manufacturers.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

March 2018: 279 x 216: 576pp

Pb: 978-1-630-57152-8: **£57.00**

Prev. Ed Pb: 978-1-630-57060-6

* For full contents and more information, visit: www.routledge.com/9781630571528**Engineering & Computer Graphics Workbook Using SOLIDWORKS 2018**

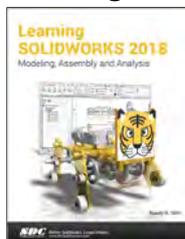
Ronald E. Barr, Davor Juricic and Thomas J. Krueger

Engineering & Computer Graphics Workbook Using SOLIDWORKS 2018 is an exercise-based workbook that uses step-by-step tutorials to cover the fundamentals of SOLIDWORKS 2018. The intended audience is college undergraduate engineering majors, but it could also be used in pre-college introductory engineering courses or by self learners.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

April 2018: 279 x 216: 256pp

Pb: 978-1-630-57142-9: **£47.00*** For full contents and more information, visit: www.routledge.com/9781630571429**Learning SOLIDWORKS 2018**

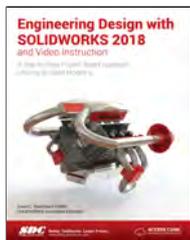
Randy Shih

This book will teach you everything you need to know to start using *SOLIDWORKS 2018* with easy to understand, step-by-step tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

March 2018: 279 x 216: 544pp

Pb: 978-1-630-57145-0: **£55.00*** For full contents and more information, visit: www.routledge.com/9781630571450**Engineering Design with SOLIDWORKS 2018 and Video Instruction**

David Planchard

Engineering Design with SOLIDWORKS 2018 and video instruction is written to assist students, designers, engineers and professionals. The book provides a solid foundation in SOLIDWORKS by utilizing projects with step-by-step instructions for the beginner to intermediate SOLIDWORKS user. Explore the user interface, CommandManager, menus, toolbars and modeling techniques to create parts, assemblies and drawings in an engineering environment. Follow the step-by-step instructions and develop multiple parts and assemblies that combine machined, plastic and sheet metal components.

Formulate the skills to create, modify and edit sketches and solid features.

SDC Publications

Market: CAD CAE CAM – Computing & Information Technology

January 2018: 279 x 216: 850pp

Pb: 978-1-630-57147-4: **£59.99*** For full contents and more information, visit: www.routledge.com/9781630571474**Parametric Modeling with SOLIDWORKS 2018**

Paul Schilling and Randy Shih

Parametric Modeling with SOLIDWORKS 2018 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2018, solid modeling and parametric modeling techniques and concepts.

CRC Press

Market: CAD CAE CAM – Computing & Information Technology

April 2018: 279 x 216: 600pp

Pb: 978-1-630-57141-2: **£55.00*** For full contents and more information, visit: www.crcpress.com/9781630571412

Project Based SOLIDWORKS 2016



Kirstie Plantenberg

Project Based SOLIDWORKS is specifically designed to complement an engineering graphics course. It covers how to apply engineering graphics concepts, such as part printers, section views, assembly drawings, tolerancing and fasteners. It also extends these topics into the world of design.

SDC Publications

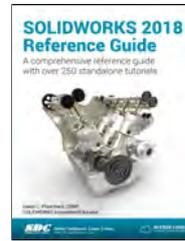
Market: CAD CAE CAM - Computing & Information Technology

January 2018: 279 x 216: 326pp

Pb: 978-1-630-57136-8: **£86.95**

* For full contents and more information, visit: www.routledge.com/9781630571368

SOLIDWORKS 2018 Reference Guide



David Planchard

The SOLIDWORKS 2018 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2018. SOLIDWORKS is an immense software package, and no one book can cover all topics for all users. This book provides a centralized reference location to address many of the tools, features and techniques of SOLIDWORKS 2018

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

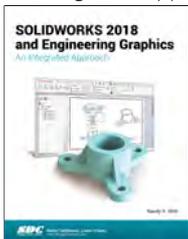
January 2018: 279 x 216: 950pp

Pb: 978-1-630-57150-4: **£62.99**

* For full contents and more information, visit: www.routledge.com/9781630571504

SOLIDWORKS 2018 and Engineering Graphics

An Integrated Approach



Randy Shih

The primary goal of *SOLIDWORKS 2018 and Engineering Graphics: An Integrated Approach* is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package – SOLIDWORKS 2018. This text is intended to be used as a training guide for students and professionals. It combines an introduction to SOLIDWORKS 2018 with a comprehensive coverage of engineering graphics principles. ;

CRC Press

Market: CAD CAE CAM - Computing & Information Technology

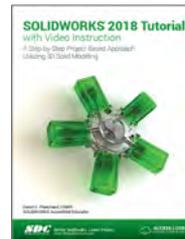
March 2018: 279 x 216: 700pp

Pb: 978-1-630-57154-2: **£57.00**

* For full contents and more information, visit: www.crcpress.com/9781630571542

13rd Edition

SOLIDWORKS 2018 Tutorial with Video Instruction



David Planchard

SOLIDWORKS 2018 Tutorial with video instruction is written to assist students, designers, engineers and professionals who are new to SOLIDWORKS. The text provides a step-by-step, project based learning approach. It also contains information and examples on the five categories, to take and understand the Certified Associate - Mechanical Design (CSWA) exam.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

January 2018: 279 x 216: 646pp

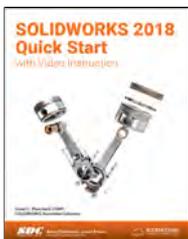
Pb: 978-1-630-57156-6: **£57.00**

Prev. Ed Pb: 978-1-630-57074-3

* For full contents and more information, visit: www.routledge.com/9781630571566

5th Edition

SOLIDWORKS 2018 Quick Start with Video Instruction



David Planchard

SOLIDWORKS 2018 in 5 Hours with video instruction introduces the new user to the basics of using SOLIDWORKS 3D CAD software in five easy lessons. This book is intended for the student or designer that needs to learn SOLIDWORKS quickly and effectively for senior capstone, machine design, kinematics, dynamics, and other engineering and technology projects that use SOLIDWORKS as a tool. Engineers in industry are expected to have SOLIDWORKS skills for their company's next project. Students need to learn SOLIDWORKS without taking a formal CAD course.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

March 2018: 279 x 216: 268pp

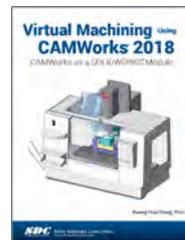
Pb: 978-1-630-57143-6: **£43.00**

Prev. Ed Pb: 978-1-630-57072-9

* For full contents and more information, visit: www.routledge.com/9781630571436

Virtual Machining Using CAMWorks 2018

CAMWorks as a SOLIDWORKS Module



Kuang-Hua Chang

This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks. CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating a physical product. CAMWorks is embedded in SOLIDWORKS as a fully integrated module. CAMWorks provides excellent capabilities for machining simulations in a virtual environment. Capabilities in CAMWorks allow you to select CNC machines and tools, extract or create machinable features, define machining operations, and simulate and visualize machining toolpaths.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

March 2018: 279 x 216: 170pp

Pb: 978-1-630-57151-1: **£46.00**

* For full contents and more information, visit: www.routledge.com/9781630571511

Analysis of Machine Elements Using SOLIDWORKS Simulation 2018



Shahin S. Nudehi and John R. Steffen

Analysis of Machine Elements Using SOLIDWORKS Simulation 2018 is written primarily for first-time SOLIDWORKS Simulation 2018 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements. The focus of examples is on problems commonly found in introductory, undergraduate, Design of Machine Elements or similarly named courses.

SDC Publications

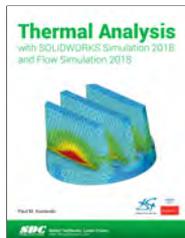
Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 500pp

Pb: 978-1-630-57161-0: **£51.00**

* For full contents and more information, visit: www.routledge.com/9781630571610

Thermal Analysis with SOLIDWORKS Simulation 2018 and Flow Simulation 2018



Paul Kurowski

Thermal Analysis with SOLIDWORKS Simulation 2018 goes beyond the standard software manual. It concurrently introduces the reader to thermal analysis and its implementation in SOLIDWORKS Simulation using hands-on exercises. A number of projects are presented to illustrate thermal analysis and related topics. Each chapter is designed to build on the skills and understanding gained from previous exercises.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

April 2018: 279 x 216: 302pp

Pb: 978-1-630-57165-8: **£52.00**

* For full contents and more information, visit: www.routledge.com/9781630571658

Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2018



Randy Shih

The primary goal of this book is to introduce the aspects of Finite Element Analysis (FEA) that are important to engineers and designers. Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation.

CRC Press

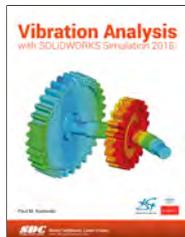
Market: CAD CAE CAM - Computing & Information Technology

April 2018: 279 x 216: 500pp

Pb: 978-1-630-57155-9: **£55.00**

* For full contents and more information, visit: www.crcpress.com/9781630571559

Vibration Analysis with SOLIDWORKS Simulation 2018



Paul Kurowski

Vibration Analysis with SOLIDWORKS Simulation 2018 goes beyond the standard software manual. It concurrently introduces the reader to vibration analysis and its implementation in SOLIDWORKS Simulation using hands-on exercises. A number of projects are presented to illustrate vibration analysis and related topics. Each chapter is designed to build on the skills and understanding gained from previous exercises. *Vibration Analysis with SOLIDWORKS Simulation 2018* is designed for users who are already familiar with the basics of Finite Element Analysis (FEA) using SOLIDWORKS Simulation or who have completed the book *Engineering Analysis with SOLIDWORKS Simulation 2018*.

CRC Press

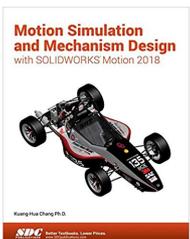
Market: CAD CAE CAM - Computing & Information Technology

March 2018: 279 x 216: 348pp

Pb: 978-1-630-57159-7: **£54.00**

* For full contents and more information, visit: www.crcpress.com/9781630571597

Motion Simulation and Mechanism Design With SOLIDWORKS Motion 2018



Kuang-Hua Chang

This book will help you become familiar with SOLIDWORKS Motion and covers the basic concepts and frequently used commands required to advance readers from a novice to intermediate level in using SOLIDWORKS Motion. Concepts discussed in this book include model generation, carrying out simulation and animation and visualizing simulation results.

CRC Press

Market: CAD CAE CAM - Computing & Information Technology

June 2018

Pb: 978-1-630-57157-3: **£46.00**

* For full contents and more information, visit: www.crcpress.com/9781630571573

Engineering Analysis with SOLIDWORKS Simulation 2018



Paul Kurowski

Engineering Analysis with SOLIDWORKS Simulation 2018 goes beyond the standard software manual. Its unique approach concurrently introduces you to the SOLIDWORKS Simulation 2018 software and the fundamentals of Finite Element Analysis (FEA) through hands-on exercises.

CRC Press

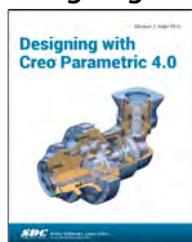
Market: CAD CAE CAM - Computing & Information Technology

March 2018: 279 x 216: 600pp

Pb: 978-1-630-57153-5: **£58.00**

* For full contents and more information, visit: www.crcpress.com/9781630571535

Designing with Creo Parametric 4.0



Michael J. Rider

Designing with Creo Parametric 4.0 provides the high school student, college student, or practicing engineer with a basic introduction to engineering design while learning the 3D modeling Computer-Aided Design software called Creo Parametric from PTC. The topics are presented in tutorial format with exercises at the end of each chapter to reinforce the concepts covered. It is richly illustrated with computer screen shots throughout. Above all, this text is designed to help the reader expand their creative talents and communicate their ideas through the graphics language.

SDC Publications

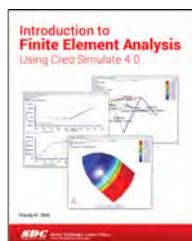
Market: CAD CAE CAM - Computing & Information Technology

January 2018: 544pp

Pb: 978-1-630-57102-3: £94.99

* For full contents and more information, visit: www.routledge.com/9781630571023

Introduction to Finite Element Analysis Using Creo Simulate 4.0



Randy Shih

The primary goal of Introduction to Finite Element Analysis Using Creo Simulate 4.0 is to introduce the aspects of finite element analysis (FEA) that are important to the engineers and designers. Theoretical aspects of finite element analysis are also introduced as they are needed to help better understand the operations. The primary emphasis of the text is placed on the practical concepts and procedures of using Creo Simulate in performing Linear Statics Stress Analysis; but the basic modal analysis procedure is covered.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

January 2018: 436pp

Pb: 978-1-630-57108-5: £54.99

* For full contents and more information, visit: www.routledge.com/9781630571085

Programming and Engineering Computing with MATLAB 2018



Huei-Huang Lee

This book is designed for undergraduate students completely new to programming with MATLAB. Case studies and examples are used extensively throughout this book and are at the core of what makes this book so unique. The author believes that the best way to learn MATLAB is to study programs written by experienced programmers and that the quality of these example programs determines the quality of the book. The examples in this book are carefully designed to teach you MATLAB programming as well as to inspire within you your own problem solving potential. Most of the examples used in this book are designed to solve a whole class of problems, rather than a single, specific problem.

SDC Publications

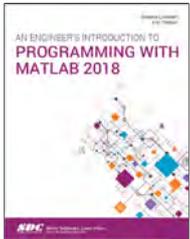
Market: CAD CAE CAM - Computing & Information Technology

July 2018: 279 x 216: 544pp

Pb: 978-1-630-57171-9: **£51.00**

* For full contents and more information, visit: www.routledge.com/9781630571719

An Engineer's Introduction to Programming with MATLAB 2018



Shawna Lockhart and Eric Tilleson

This book accomplishes two things simultaneously: it teaches you to use the latest version of the powerful MATLAB programming environment, and it teaches you core, transferrable programming skills that will make you feel at home with most procedural programming languages.

SDC Publications

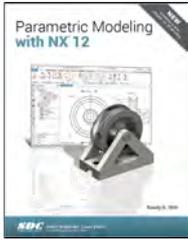
Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 256pp

Pb: 978-1-630-57206-8: **£44.00**

* For full contents and more information, visit: www.routledge.com/9781630572068

Parametric Modeling with NX 12



Randy Shih

The primary goal of *Parametric Modeling with NX 12* is to introduce the aspects of designing with Solid Modeling and Parametric Modeling. This text is intended to be used as a practical training guide for students and professionals. This text uses NX 12 as the modeling tool, and the chapters proceed in a pedagogical fashion to guide you from constructing basic solid models to building intelligent mechanical designs, creating multi-view drawings and assembly models. This text takes a hands-on, exercise-intensive approach to all the important Parametric Modeling techniques and concepts.

SDC Publications

Market: CAD CAE CAM - Computing & Information Technology

June 2018: 279 x 216: 435pp

Pb: 978-1-630-57168-9: **£55.00**

* For full contents and more information, visit: www.routledge.com/9781630571689

A

<i>Analysis of Machine Elements Using SOLIDWORKS Simulation 2018</i>	12
<i>AutoCAD 2019 for the Interior Designer</i>	4
<i>AutoCAD 2019 Instructor</i>	4
<i>AutoCAD 2019 Tutorial First Level 2D Fundamentals</i>	4
<i>AutoCAD 2019 Tutorial Second Level 3D Modeling</i>	4
<i>Autodesk AutoCAD 2019 Fundamentals</i>	4
<i>Autodesk AutoCAD Architecture 2018 Fundamentals</i>	3
<i>Autodesk Inventor 2018 and Engineering Graphics</i>	6
<i>Autodesk Inventor 2019</i>	6
<i>Autodesk Inventor 2019 and Engineering Graphics</i>	6
<i>Autodesk Inventor 2019 Essentials Plus</i>	6
<i>Autodesk Revit 2019 Architectural Command Reference</i>	8
<i>Autodesk Revit 2019 Architecture Basics</i>	8
<i>Autodesk Revit 2019 Architecture Certification Exam Study Guide</i>	8

B

<i>Beginner's Guide to SOLIDWORKS 2018 - Level II</i>	10
---	----

C

<i>Commercial Design Using Autodesk Revit 2019</i>	8
<i>Concise Introduction to Engineering Graphics (5th Ed.) including Worksheet Series A, A</i>	3

D

<i>Design Integration Using Autodesk Revit 2019</i>	8
<i>Designing with Creo Parametric 4.0</i>	13

E

<i>Engineer's Introduction to Programming with MATLAB 2018, An</i>	14
<i>Engineering & Computer Graphics Workbook Using SOLIDWORKS 2018</i>	10
<i>Engineering Analysis with SOLIDWORKS Simulation 2018</i>	12
<i>Engineering Design with SOLIDWORKS 2018 and Video Instruction</i>	10
<i>Engineering Graphics Essentials with AutoCAD 2019 Instruction</i>	4
<i>Engineering Graphics with SOLIDWORKS 2018 and Video Instruction</i>	10

I

<i>Interior Design Using Autodesk Revit 2019</i>	8
<i>Introduction to AutoCAD 2019 for Civil Engineering Applications</i>	3
<i>Introduction to Finite Element Analysis Using Creo Simulate 4.0</i>	13
<i>Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2018</i>	12
<i>Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2018</i>	12

K

<i>Kelly L. Murdock's Autodesk 3ds Max 2019 Complete Reference Guide</i>	2
--	---

L

<i>Learning Autodesk Inventor 2018</i>	6
<i>Learning Autodesk Inventor 2019</i>	7
<i>Learning Autodesk Inventor 2019</i>	7
<i>Learning SOLIDWORKS 2018</i>	10

P

<i>Parametric Modeling with Autodesk Fusion 360</i>	2
<i>Parametric Modeling with NX 12</i>	15
<i>Parametric Modeling with SOLIDWORKS 2018</i>	10
<i>Principles and Practice: An Integrated Approach to Engineering Graphics and AutoCAD 2019</i>	5
<i>Programming and Engineering Computing with MATLAB 2018</i>	14
<i>Project Based SOLIDWORKS 2016</i>	11

R

<i>Residential Design Using Autodesk Revit 2019</i>	9
---	---

S

<i>SOLIDWORKS 2018 and Engineering Graphics</i>	11
<i>SOLIDWORKS 2018 Quick Start with Video Instruction</i>	11
<i>SOLIDWORKS 2018 Reference Guide</i>	11
<i>SOLIDWORKS 2018 Tutorial with Video Instruction</i>	11

T

<i>Technical Drawing 101 with AutoCAD 2019</i>	5
<i>Thermal Analysis with SOLIDWORKS Simulation 2018 and Flow Simulation 2018</i>	12
<i>Tools for Design Using AutoCAD 2019 and Autodesk Inventor 2019</i>	5
<i>Tutorial Guide to AutoCAD 2019</i>	5

V

<i>Vibration Analysis with SOLIDWORKS Simulation 2018</i>	12
<i>Virtual Machining Using CAMWorks 2018</i>	11

B

Banach, Daniel T.	6
Barr, Ronald E.	10

C

Chang, Kuang-Hua	11
------------------------	----

F

Fuller, Ashleigh	5
------------------------	---

H

Hansen, Aaron R.	8
Hansen, L. Scott	6
Hanson, Jeff	8

J

Jumper, Luke	4
--------------------	---

K

Kurowski, Paul	12
Kurowski, Paul	12
Kurowski, Paul	12

L

Leach, James A.	4
Lee, Huei-Huang	14
Lockhart, Shawna	5
Lockhart, Shawna	14

M

Moss, Elise	3
Moss, Elise	4
Moss, Elise	8
Moss, Elise	8
Muccio, Dean	4
Murdock, Kelly L.	2

N

Nudehi, Shahin S.	12
------------------------	----

P

Planchar, David	10
Planchar, David	10
Planchar, David	11
Planchar, David	11
Planchar, David	11
Plantenberg, Kirstie	4
Plantenberg, Kirstie	11

R

Reyes, Alejandro	10
Rider, Michael J.	13

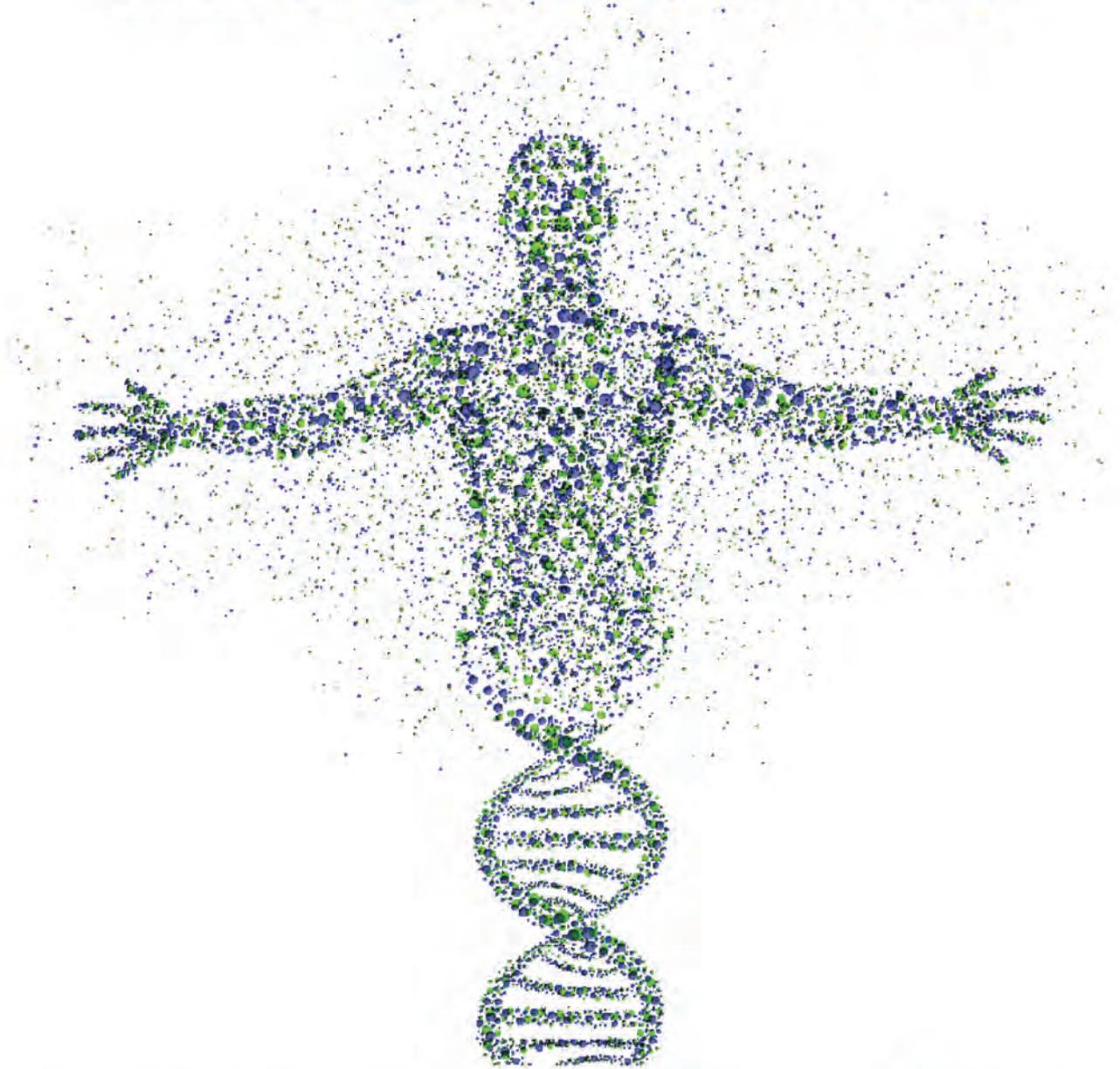
S

Schilling, Paul	10
Sexton, Timothy	3
Shih, Randy	2
Shih, Randy	4
Shih, Randy	5
Shih, Randy	5
Shih, Randy	6
Shih, Randy	6
Shih, Randy	6
Shih, Randy	7
Shih, Randy	7
Shih, Randy	10
Shih, Randy	11
Shih, Randy	12
Shih, Randy	12
Shih, Randy	13
Shih, Randy	15
Stine, Daniel John	8
Stine, Daniel John	8
Stine, Daniel John	9

Y

Yasmin, Nighat	3
----------------------	---

**With More Than a Century
of Publishing Excellence,
as Science Evolves, So Do We**



Go to www.crcpress.com to find out more.



CRC Press
Taylor & Francis Group

