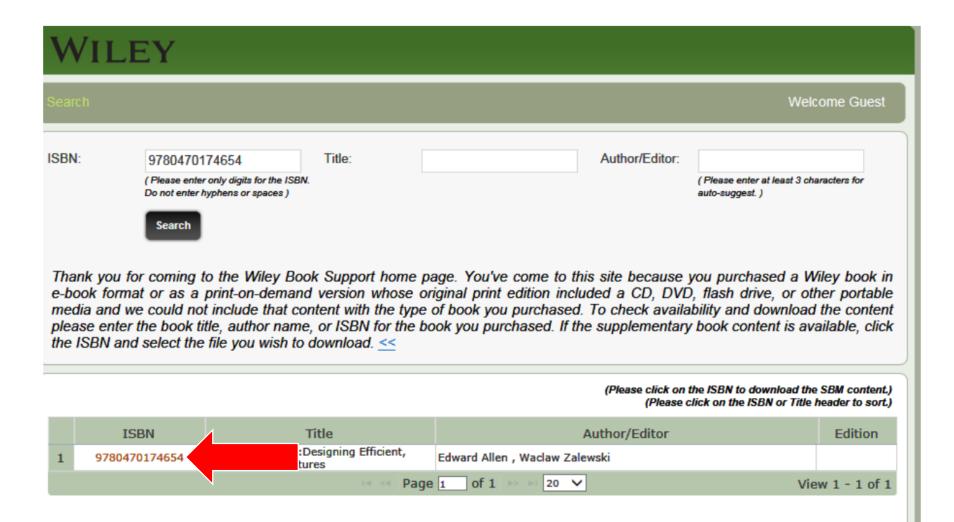
How to access the Student Companion Site?

- Active Statics
- Form & Forces Graphical Techniques
- Worksheets
- Statics Pad

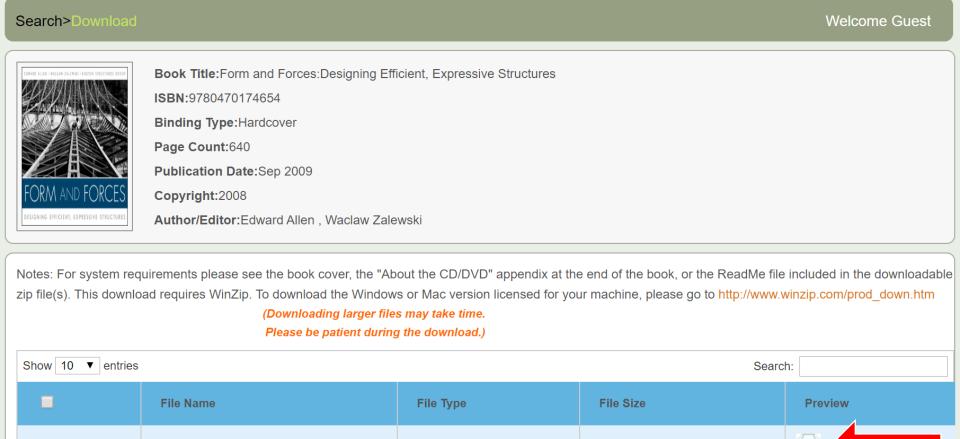
Go to https://wiley.mpstechnologies.com/wiley/BOBContent/searchLPBobContent.do Enter ISBN 9780470174654



Click on the ZIP icon or Download button to download the zip folder.

9780470174654.zip

Showing 1 to 1 of 1 entries



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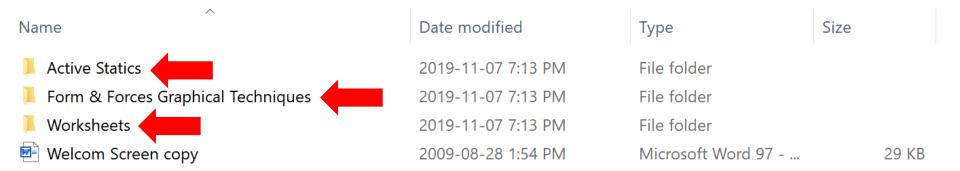
Previous

Next

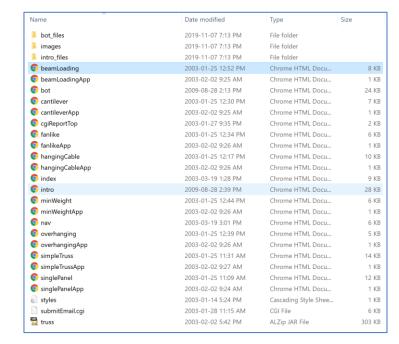
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9676875 Bytes

After downloading the zip folder, extract the folder using any unzip tool on your computer, and you should be able to see **Active Statics, Form & Forces Graphical Techniques** and **Worksheets** folders saved on your computer. **Statics Pad** cannot be downloaded here and will require a different link shown further.



This is the **Active Statics** folder and tool interface.



Active Statics

 $o.\ Introduction$



1. Single Panel Truss



2. Simple Truss





Introduction

The purpose of these interactive demonstrations is to help you develop a thorough understanding of basic principles of structural behavior, and to provide you with tools and knowledge that will help you to design structures that are efficient and elegant.

Before you begin, you should have some familiarity with the rudiments of graphic statics. These can be learned from Zalewski and Allen, Form and Forces (New York, John Wiley & Sons, 2010, ISBN 978-0-470-17465-4), and the Graphical Techniques download on this Web site, created by Joseph Iano.

For best viewing, the screen settings on you computer should be 1024 by 768 or greater.

Single-click on any icon in the left-hand column to start that demonstration. It will take a few moments to come up. If you have a popup blocker on, you must turn it off because the demos come up in their own popup windows when clicked.

Spend time playing with each of the demonstrations. You'll often discover things that are not mentioned in this manual. You may also wish to use one or more of the demos as tools to help you design a structure that you're working on. And if you develop something of interest as a result, please tell us about it. You can reach us by e-mail at allenarch@compuserve.com.

The Origins of These Demonstrations

These interactive demonstrations were conceived and programmed by Simon Greenwold. When Simon was a graduate student in architecture at M.I.T., he took a beginning structures class in which he learned graphic statics from the textbook by Zalewski and Allen entitled Form and Forces. Drawing on his previous experiences as an undergraduate math major, teacher of high school geometry, and computer programmer,

Active Statics © 2003, Simon Greenwold, manual by Edward Allen.

Based on techniques described in Form and Forces by Waclaw Zalewski and Edward Allen.

This is the Form & Forces Graphical Techniques folder and tool interface. Name Date modified Size Type 2ptFunic 2009-08-05 12:04 PM Adobe Acrobat Docu... 3ptFunic 2009-08-05 12:07 PM Adobe Acrobat Docu... & ConcArch 2009-08-05 12:05 PM Adobe Acrobat Docu... - contents 2009-08-05 12:07 PM Adobe Acrobat Docu... effctrus Adobe Acrobat Docu... 2009-08-05 12:05 PM FanStrct Adobe Acrobat Docu... 2009-08-05 12:07 PM ♣ GrupForc Adobe Acrobat Docu... 2009-08-05 12:06 PM help 2009-08-05 12:07 PM Adobe Acrobat Docu... TrusForc 2009-08-05 12:06 PM Adobe Acrobat Docu... 2ptFunic.pdf (SECURED) - Adobe Acrobat Reader DC ₩ UnifArch 2009-08-05 12:08 PM Adobe Acrobat Docu... File Edit View Window Help Tools 2ptFunic.pdf (SECU... × ♠ ← ← ← 1 / 40 Bookmarks Finding a Funicular Curve Through Two Points Louvre Museum This is the glass pyramid at the Louvre Museum in Paris, The Problem designed by architect I.M. Pei. Loading Diagram It is supported from beneath by steel cables. Load Line Trial Funicular Poly. In designing a structure such as this, it is often most useful to Final Pole select a cable of a certain size Final Funicular Poly. and tensile strength, and then to find a shape for it that will utilize The Solution fully the given tensile strength. □ Towers & Backstays In this lesson we will learn to find Arched Roof Shell the form for a cable or arch that passes through any two points and experiences a designated maximum tensile or compressive force. To proceed with this lesson. click on the **Next** button here or at the top of any page. When you are done with this lesson, click on the Contents button here or at the top of any page to return to the list of lessons.

448 KB

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406 KB

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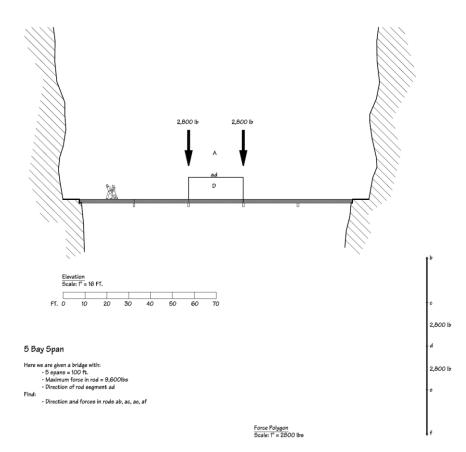
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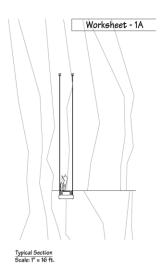
703 KB

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This is the Worksheets folder and tool interface.



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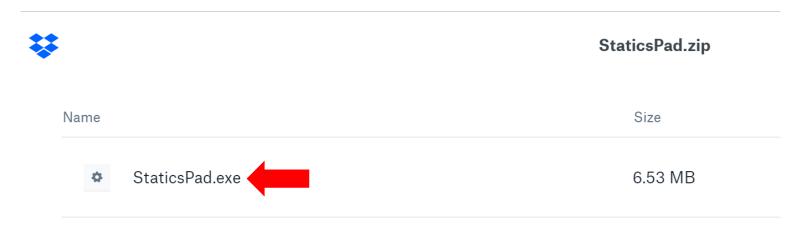


To download the **Statics Pad** software, go to the following Dropbox link provided by the publisher:

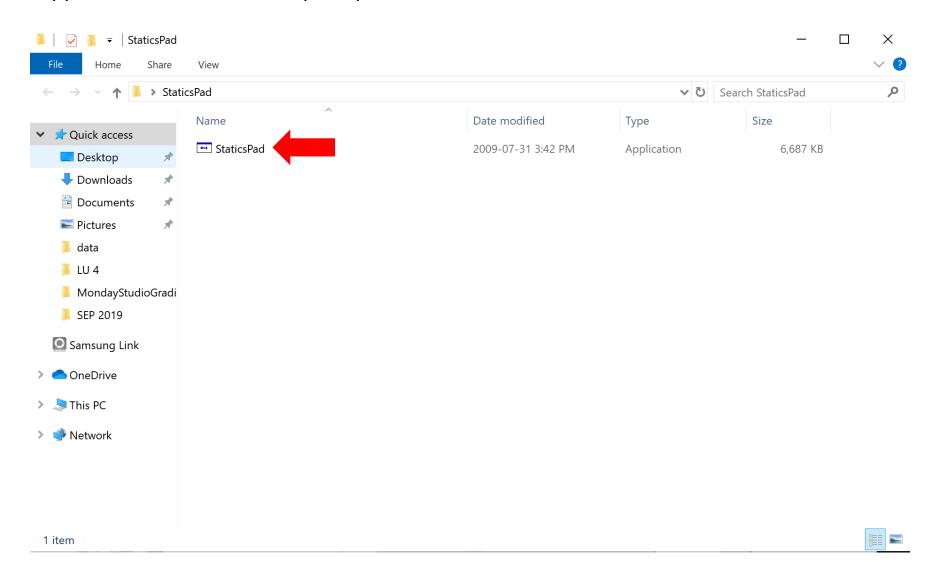
https://www.dropbox.com/s/696sd15ln1jdx1p/StaticsPad.zip?dl=0

If you have a Dropbox account, you will be required to sign in. If you do not have a dropbox account, you will be asked to register an account with your e-mail for free.

Click the **StaticsPad.exe** file icon.
Click Download > Direct Download.



Extract the zip folder saved on your computer and click the StaticsPad.exe application file. Follow the prompts to install the software.



There you go. Now you have Statics Pad installed on your computer. Enjoy!

