

# CD-ROM CATALOG

## KEY TO FILENAME SUFFIXES

DYNACAM	.CAM
ENGINE	.ENG
FIVEBAR	.5BR
FOURBAR	.4BR
MATLAB	.M
MATRIX	.MTX
SIXBAR	.6BR
SLIDER	.SLD
TKSOLVER	.TKW
WORKING MODEL	.WM2D, WM3

## ANIMATIONS Folder

### AVI, Working Model, and Matlab files by Sid Wang

*These files are self-cataloging. Run the master catalog file Animation.html to access and run these animations. Most have AVI movie files in addition to their native file formats. The native Working Model files also can be accessed directly from the Working Model Files folder listed below.*

## CUSTOM PROGRAMS Folder

### Programs by R. L. Norton

*Run Setup.exe from within each subfolder to install that program. Accept all the default choices offered and do not replace any newer versions of .dll files that may already be on your system with older versions from this CD-ROM.*

### PROGRAM DYNACAM Subfolder

### PROGRAM ENGINE Subfolder

### PROGRAM FIVEBAR Subfolder

### PROGRAM FOURBAR Subfolder

### PROGRAM MATRIX Subfolder

### PROGRAM SIXBAR Subfolder

### PROGRAM SLIDER Subfolder

## EXAMPLES AND FIGURES Folder

### Data files for Norton's custom programs that match some examples and figures in text.

### Chapter 2 Subfolder

F02-19b.5br

### Chapter 3 Subfolder

Cognate1.4br  
Cognate2.4br  
Cognate3.4br  
F03-01a.4br  
F03-01b.4br  
F03-04.4br

F03-06.4br  
F03-07b.6br  
F03-07c.6br  
F03-08.4br  
F03-09c.6br  
F03-12.4br  
F03-13a.6br  
F03-17b.4br  
F03-18.4br  
F03-24.4br  
F03-28a.4br  
F03-28b.5br  
F03-29a.4br  
F03-29c.4br  
F03-29d.4br  
F03-29e.4br  
F03-29f.4br  
F03-31c.6br  
F03-34.6br  
F03-35.6br  
FP03-07.4br  
Straight.5br

### Chapter 4 Subfolder

F04-11.5br  
F04-15.4br

### Chapter 5 Subfolder

E05-01.4br  
E05-02a.mtr  
E05-02b.mtr  
E05-02.4br  
E05-03.4br

### Chapter 6 Subfolder

F06-14.4br  
F06-15a.4br  
F06-15b.4br  
F06-17b.4br

### Chapter 8 Subfolder

E08-03.cam  
E08-04.cam  
E08-05.cam  
E08-06.cam  
E08-07.cam  
E08-08.cam  
E08-09a.cam  
E08-09b.cam  
E08-10a.cam  
E08-10b.cam  
E08-10c.cam  
E08-11.cam  
E08-12.cam

### Chapter 11 Subfolder

E11-01.mtr  
E11-02.mtr  
E11-03.mtr  
E11-03.4br  
F11-06.4br

### Chapter 12 Subfolder

F12-05.4br

### Chapter 14 Subfolder

BmwV12.eng  
F14-12.eng  
F14-14.eng  
F14-18.eng  
F14-24.eng

### Chapter 15 Subfolder

E15-01.cam  
E15-02.cam

### Appendix A Subfolder

F\_A-05.4br  
F\_A-11.5br

## PROBLEM SOLUTIONS Folder

### Data files that solve selected problems in the text.

### Chapter 3 Subfolder

P03-14.4br  
P03-22.4br  
P03-23.4br  
P03-36.4br  
P03-42.4br

### Chapter 4 Subfolder

P04-21.4br  
P04-23.4br  
P04-25.4br  
P04-26.4br  
P04-29.4br  
P04-30.4br

### Chapter 5 Subfolder

P05-08.4br  
P05-11.4br  
P05-15.4br  
P05-19.4br  
P05-26.4br

### Chapter 6 Subfolder

P06-47.4br  
P06-48.4br

P06-49.4br  
P06-51.4br  
P06-62.4br

### Chapter 7 Subfolder

P07-04a.4br  
P07-04c.4br  
P07-04e.4br  
P07-04g.4br  
P07-04i.4br  
P07-04k.4br  
P07-04m.4br  
P07-39.4br  
P07-40.4br  
P07-41.4br  
P07-42.4br  
P07-44.4br

### Chapter 10 Subfolder

P10-04a.mtr  
P10-04b.mtr

### Chapter 11 Subfolder

P11-03a.sld  
P11-03c.sld  
P11-03e.sld  
P11-03g.sld  
P11-04a.tkw  
P11-05a.tkw  
P11-05a.4br  
P11-05c.4br  
P11-05e.4br  
P11-05g.4br  
P11-06a.tkw  
P11-06c.tkw  
P11-06e.tkw  
P11-06g.tkw  
P11-07a.4br  
P11-07c.4br  
P11-07e.4br  
P11-12.4br  
P11-13.4br

### Chapter 12 Subfolder

P12-09.4br

### Chapter 13 Subfolder

P13-11.eng  
P13-14.eng  
P13-19a.eng  
P13-19b.eng

## TKSOLVER FILES Folder

### TKSolver model files.

*The TKSolver program is needed to run these files and is not included with this text. See [www.uts.com](http://www.uts.com).*

### Gears.tkw Subfolder

Compound.tkw  
Revert.tkw  
Triple.tkw

### Linkages.tkw Subfolder

3 position FixPivots.tkw  
3 position.tkw  
Cognate.tkw  
Coupler.tkw  
DragSlider.tkw  
Eq04-02.tkw  
Ex11-04.tkw  
Figure P05-05.tkw  
Fivebar.tkw  
Fourbar.tkw  
Inverted slider-crank.tkw  
SCCA.tkw  
Slider\_Cmprt.tkw  
Slider.tkw  
Soni Cognate.tkw  
Symmetric.tkw  
Transport.tkw  
Virtual Work.tkw

### Misc.tkw Subfolder

CamCalc.tkw  
Constrnt.tkw  
Cubic.tkw  
Cycloid.tkw  
F04-18.tkw  
Pressang.tkw  
SCCA.tkw  
Student.tkw

## WORKING MODEL PROGRAM

*This folder contains the Working Model Textbook Edition program. Directions for its installation are provided on the inside back cover of this textbook. Note that the 3-D version of Working Model is not provided with this text.*

## WORKING MODEL FILES Folder

### Chapter 2 Subfolder

#### Working Model 2D Files

02-10b.wm2d - Scotch Yoke  
02-12a.wm2d - Geneva  
02-12b.wm2d - Ratchet and Pawl  
02-12c.wm2d - Linear Geneva  
02-13.wm2d - Slider-Crank  
02-14abc.wm2d - Stephenson Inversion  
02-14de.wm2d - Watt Inversions  
02-15.wm2d - Grashof Inversions  
02-16.wm2d - Non-Grashof Inversions  
02-19b.wm2d - Geared Fivebar  
02-20.wm2d - Desk Lamp  
P2-01f.wm2d - Overhead Valve  
P2-03.wm2d - Front End Loader  
P2-04c.wm2d - Radial Engine  
P2-04d.wm2d - Walking Beam  
P2-04e.wm2d - Drafting Arm  
P2-04g.wm2d - Drum Brake

P2-04h.wm2d - Compression Chamber  
P2-05a.wm2d - Chebyshev Mechanism  
P2-05b.wm2d - Kempe SL Mechanism  
P2-07.wm2d - Throttle Mechanism  
P2-08.wm2d - Scissors Jack  
P2-10.wm2d - Watt's Engine  
P2-13.wm2d - Crimping Tool  
P2-14.wm2d - Pick and Place  
P2-15.wm2d - Power Hacksaw  
P2-16.wm2d - Powder Press  
P2-18.wm2d - Oil Field Pump

#### Working Model 3D Files

P2-01h.wm3 - Cylindrical cam

### Chapter 3 Subfolder

#### Working Model 2D Files

03-04.wm2d - Example 3-1  
03-05.wm2d - Example 3-2  
03-07b.wm2d - Example 3-4  
03-09c.wm2d - Example 3-6  
03-11.wm2d - 3-Position Synthesis  
03-12b.wm2d - 4br Quick Return  
03-13a.wm2d - 6br Quick Return  
03-14.wm2d - Quick-Return Shaper  
03-14.-\*wm2d - Quick-Return Shaper  
03-15.wm2d - Coupler Curves  
03-17.wm2d - Coupler Curve Atlas  
03-17a.wm2d - Coupler Curve Atlas  
03-18.wm2d - Camera Film Advance  
03-18-\*wm2d - Camera Film Advance  
03-19a.wm2d - Auto Suspensions  
03-19a-\*wm2d - Auto Suspensions  
03-24a.wm2d - Roberts Diagram  
03-25a.wm2d - Roberts Diagram  
03-25b.wm2d - Roberts Diagram  
03-26.wm2d - Chebyshev Cognates  
03-26a.wm2d - Roberts Diagram  
03-26b.wm2d - Chebyshev Cognates  
03-26b-\*wm2d - Chebyshev Cognates  
03-27c.wm2d - Curvilinear Trans.  
03-27d.wm2d - Curvilinear Trans.  
03-28.wm2d - GFBM 4br Cognate  
03-28-\*wm2d - GFBM Cognates (alt.)  
03-29.wm2d - Straight-Line Linkages  
03-29a.wm2d - Watt Straight-Line  
03-29b.wm2d - Watt's Engine  
03-29c.wm2d - Roberts Straight-Line  
03-29d.wm2d - Chebyshev SL  
03-29e.wm2d - Hoeken Straight-Line  
03-29f.wm2d - Evans Straight-Line  
03-29g.wm2d - Peaucellier Sirt-Line  
03-31c.wm2d - Single-Dwell—Rocker  
03-31d.wm2d - Single-Dwell—Slider  
03-32.wm2d - Double-Dwell Linkage  
03-34.wm2d - 180° Rocker Output  
03-35.wm2d - Washing Machine  
03-36.wm2d - 360° Rocker Output  
P3-03.wm2d - Treadle Wheel  
P3-07.wm2d - Walking Beam  
P3-08.wm2d - Loom Laybar Drive

**Chapter 4** SubfolderWorking Model 2D Files

04-16.wm2d - Double Rocker Toggle  
 P4-01.wm2d - Four-Bar Analysis  
 P4-02.wm2d - Slider-Crank Analysis  
 P4-03.wm2d - Inverted Slider-Crank  
 P4-05c.wm2d - Radial Engine  
 P4-05d.wm2d - Walking Beam  
 P4-05e.wm2d - Drafting Machine  
 P4-05g.wm2d - Drum Brake  
 P4-05h.wm2d - Compression Chamber  
 P4-06.wm2d - Pick and Place  
 P4-07.wm2d - Power Hacksaw  
 P4-09.wm2d - Walking Beam Conveyor  
 P4-11.wm2d - Loom Laybar Drive  
 P4-14.wm2d - Treadle Wheel  
 P4-18.wm2d - Elliptical Trammel

**Chapter 6** SubfolderWorking Model 2D Files

06-05c.wm2d - Instant Centers  
 06-10b.wm2d - Instant Centers  
 06-11.wm2d - Rock Crusher  
 06-12.wm2d - Suspension  
 06-14a.wm2d - Centroides 1  
 06-14b.wm2d - Centroides 2  
 06-14c.wm2d - Centroides 3  
 06-14d.wm2d - Centroides 4  
 06-15a.wm2d - Centroides 5  
 06-15b.wm2d - Centroides 6  
 06-17a.wm2d - Cycloidal Motion  
 P6-01.wm2d - Four-Bar Analysis  
 P6-02.wm2d - Slider-Crank Analysis  
 P6-03.wm2d - Inverted Slider-Crank  
 P6-08c.wm2d - Radial Engine  
 P6-08d.wm2d - Walking Beam  
 P6-08e.wm2d - Drafting Machine  
 P6-08g.wm2d - Drum Brake  
 P6-08h.wm2d - Compression Chamber  
 P6-15.wm2d - Power Hacksaw  
 P6-16.wm2d - Pick and Place  
 P6-18.wm2d - Powder Press  
 P6-19.wm2d - Walking Beam Conveyor  
 P6-21.wm2d - Toggle Pliers  
 P6-23.wm2d - Surface Grinder  
 P6-29.wm2d - Drum Pedal  
 P6-30.wm2d - Oil Field Pump  
 P6-32.wm2d - Elliptical Trammel

Working Model 3D Files

06-12.wm3 - Bump Steering

**Chapter 7** SubfolderWorking Model 2D Files

P7-01.wm2d - Four-Bar Analysis  
 P7-02.wm2d - Slider-Crank Analysis  
 P7-03.wm2d - Inverted Slider-Crank  
 P7-08c.wm2d - Radial Engine

P7-08d.wm2d - Walking Beam  
 P7-08e.wm2d - Drafting Machine  
 P7-08g.wm2d - Drum Brake  
 P7-08h.wm2d - Compress Chamber  
 P7-15.wm2d - Power Hacksaw  
 P7-16.wm2d - Pick and Place  
 P7-19.wm2d - Walking Beam  
 P7-20.wm2d - Surface Grinder  
 P7-24.wm2d - Drum Pedal

**Chapter 8** SubfolderWorking Model 2D Files

08-02a.wm2d - Translating Follower  
 08-02b.wm2d - Oscillating Follower  
 08-03a.wm2d - Roller Follower  
 08-03c.wm2d - Flat-Faced Follower  
 08-39.wm2d - Cam and Follower  
 08-48.wm2d - Radii of Curvature  
 E8-02.wm2d - Example 8-2  
 E8-03.wm2d - Example 8-3  
 E8-04.wm2d - Example 8-4  
 E8-07.wm2d - Example 8-7

Working Model 3D Files

08-03a.wm3 - Roller Follower  
 08-04.wm3 - Cylindrical Cam

**Chapter 9** SubfolderWorking Model 2D Files

09-01b.wm2d - Internal Gearset  
 09-04.wm2d - External Gearset  
 09-05.wm2d - Involute Curves  
 09-06.wm2d - Tooth Engagement  
 09-19.wm2d - Rack and Pinion  
 09-28.wm2d - Compound Gear Train  
 09-33.wm2d - Planetary Gearset

Working Model 3D Files

09-16.wm3 - Helical-Parallel Gears  
 09-17.wm3 - Helical-Crossed Gears  
 09-18.wm3 - Worm and Worm Gear  
 09-21.wm3 - Bevel Gears  
 09-30.wm3 - Gear Trains  
 09-34.wm3 - Planetary Gearset  
 09-44a.wm3 - Transmission - High  
 09-44b.wm3 - Transmission - Low  
 09-44c.wm3 - Transmission - Reverse  
 09-51.wm3 - Drive Train  
 P9-02.wm3 - Compound Epicyclic  
 P9-03\_open.wm3 - Differential  
 P9-03\_locked.wm3 - Differential

**Chapter 10** SubfolderWorking Model 2D Files

10-11a.wm2d - Valve Train

**Chapter 13** SubfolderWorking Model 2D Files

13-01.wm2d - Vee-Eight Engine

**PDF PROBLEM WORKBOOK Folder**

*This folder contains PDF files of all the figures needed to solve the text's end-of-chapter problems. Each PDF file contains one problem figure and all of the problem statements associated with it. They are grouped in subfolders by chapter and their filenames are the same as the figure number or problem number involved. These files provide the student with a printable workbook of illustrated problems in which graphical problem solutions can be directly worked out or analytical solution results recorded.*