1CD-ADVENTURE User's Manual

Structural Analysis

1CD-ADVENTURE

Startup
Put the CD into the drive, and boot from the CD.
USB flash memory is useful for back up of your analysis data.











student's Home



Click the "Switch to English mode" icon at the top right surrounded by the red circle.

■You are now logged out.

Enter user name "student". Please login again.

1CD-ADVENTURE



👸 Applications Places Desktop 🔚









student's Home











Decide the type of data you want to read.
You can choose a type from STL(ascii), IGES, and AdvCAD.
In this manual, a sample of AdvCAD data is used.



Applications	s Places	s Deskt	op 🎦						State	🧕 14:49
	ADV	ENTURE E	du Stress	analysis quadr	atic tel	t element				
Analysis case 🕞	repare anal	ysis data	Set bounda	ary conditions A	nalysis	Result visual	zation	Options		
Compute Read geometry data										
Ge	enerate me	je ne vy ish	_	Pre	pai	re an	alysi	is data		
student's Hon	ne			Open			×			
		<u>D</u> irectiry:		/MOL+/home/stu	dent	-	£			
Trash		3 15	.Trash .vine vje v3m hn7 .xemacs AdvCAD	 ☐ bin ☐ CAE_DA ☐ Desktop ☐ EduCAtE ☐ IGES ☐ lib ☐ rom 	T Ć	È Sample_Dat È STL	Directory:	Open /MOL+/home/stude	ent/Adv CAD	
		File <u>n</u> an Files of <u>t</u> y	ne:	\D Files (*.gm3d)		<u>O</u> p	stress_cond	entration.gm3d entration_half.gm3d		
	Ľ						File <u>n</u> ame:	stress_concentration.gr	13d	<u>Open</u>
							Files of <u>t</u> ype:	AdvCAD Files (*.gm3d	n =	<u>C</u> ancel

 $\square \emptyset$



👸 Applicatio	ns Places Deskto	op 🔚				Ser.	٢	14:49
	ADVENTURE E	du Stress analysis qua	dratic tet	t element				
Analysis case	Prepare analysis data	Set boundary conditions	Analysis	Result visualization	Options			
toqmo2 (Read geometry data Set element length							
	View model geometry Generate mesh	Pre	epai	re analy	vsis data			
student's He	ome							
		ADVENTURE Edu	Stress a	na. quadratic te	et element			
	Analysis case	Prepare analysis data So	et boundary	conditions Analysis	Result visualization	Options		
		Elem	ent length(l	Base Distance) [10]				

Choose "Set element length".
The selected model is divided into tetrahedra.
Decide a typical size of the tetrahedra.
This time, input "10" and hit the Enter key.





- The model divided by tetrahedra will be shown.
- At first, do not divide it too fine.
- If you divide it too fine, your computer may be out of memory.







Choose "Set material properties"

- Input "Young's Modulus" and "Poisson's ratio"
- After you input values,
 - push the Enter key to make them definite.
- This time, use 21000 as the Young's modulus,

and 0.3 as the Poisson's ratio.

ADVENTURE Edu Stress analysis quadratic tet element

AD























st

		Computer - File Browser						
npute	Eile Ec Save	to a US	B flash	топе сопр	Search	17		
	Computer			Θ, 7	5% 🔍 🛛 View as I	cons 🗘		
nt's Home	Places ▼ × Student Desktop File System Floppy Drive MOL-0.6.2-Vine4 MY USB DISK	Floppy Drive	CD-RW Drive: MOL-0.6.2- Vine4	143.3 GB Volume	I-O DATA USB Flash Disk			
	"I-O DATA USB Flash D	isk" selected (0 byt	es)					

Mount USB flash drive:

- Connect a USB flash drive to your PC.
- Open the "Computer" icon.
- Double click the icon of the USB flash drive.

エディタ

ADVENTURE ADVENTURE Edu Stress analysis quadratic tet element iAgent

勤主処理

14:49 🔟



14:49 🔟



14:49 🔟







student's Home



MY USB DISK

Elasto-plastic Analysis

14:49 🔟

0

Double click the icon surrounded by the red circle.



