結構工程
Structural Engineering

結構設計
Structural Design

結構分析軟體PISA3D之應用

陳沛清 博士

Pei-Ching Chen, Ph.D

Associate Professor

Department of Civil and Construction Engineering,
National Taiwan University of Science and Technology, Taiwan

Adjunct Associate Researcher

National Center for Research on Earthquake Engineering

E-mail：peichingchen@mail.ntust.edu.tw

結構工程
Structural Engineering

結構分析軟體PISA3D之應用

課程助教 張原嘉 鍾國佑

Graduate Student
Department of Civil and Construction Engineering,
National Taiwan University of Science and Technology, Taiwan

E-mail：
M11205314@mail.ntust.edu.tw
M11205335@mail.ntust.edu.tw

軟體安裝

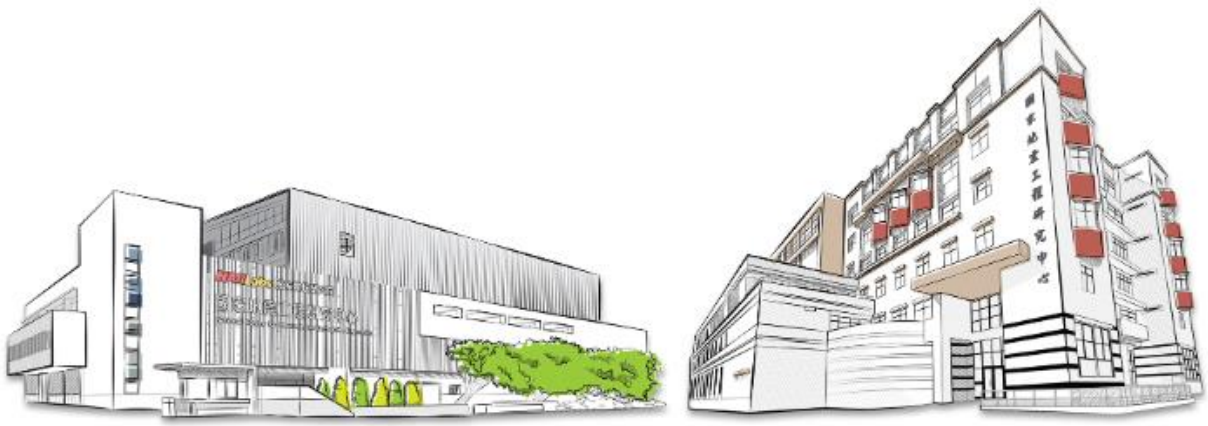
- 下載連結

PISA3D

The latest PISA3D for free trial and academic applications (the maximum number of nodes is 200) can be downloaded from here:

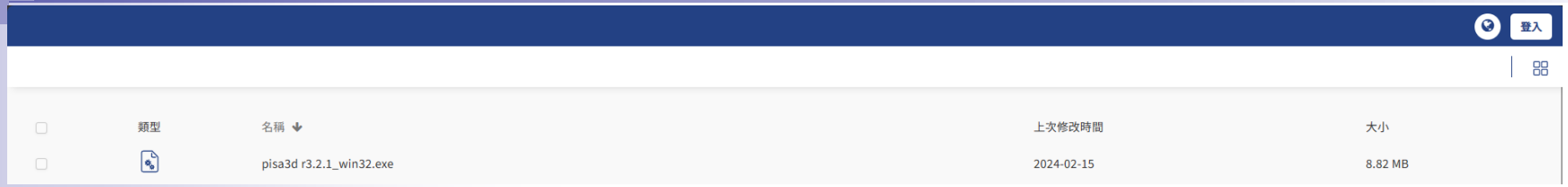
[DOWNLOAD]

If you need the technical support of using PISA3D, please contact us via the e-mail:
PISA3D@narlabs.org.tw

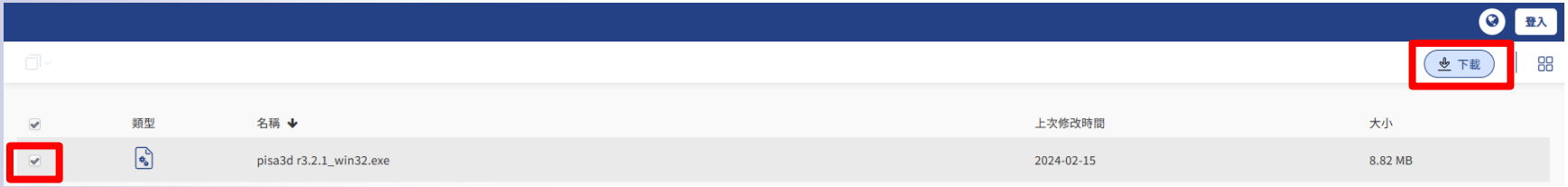


軟體安裝

1.


登入
類型
名稱
上次修改時間
大小
pisa3d r3.2.1_win32.exe
2024-02-15
8.82 MB

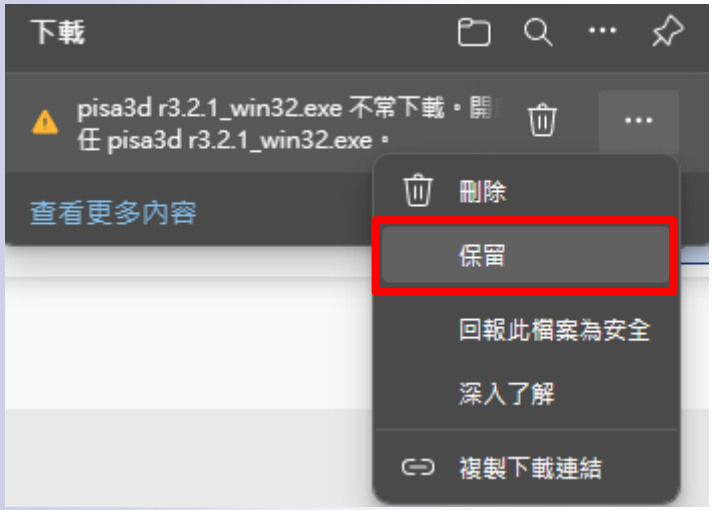
2.


登入
下載
類型
名稱
上次修改時間
大小
pisa3d r3.2.1_win32.exe
2024-02-15
8.82 MB

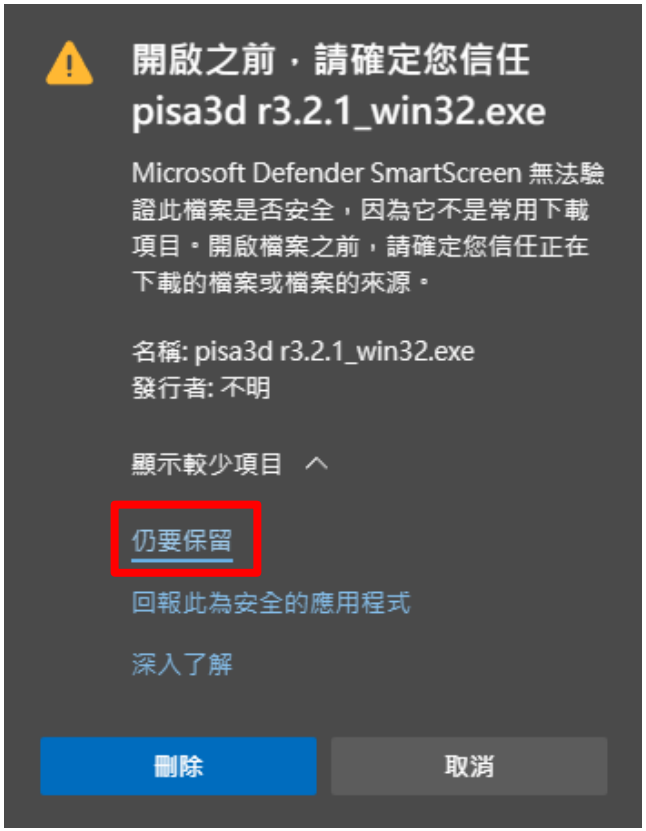
3.


下載
pisa3d r3.2.1_win32.exe 不常下載。開啟前，請確定您信任 pisa3d r3.2.1_win32.exe。
查看更多內容

4.


下載
pisa3d r3.2.1_win32.exe 不常下載。開
任 pisa3d r3.2.1_win32.exe。
查看更多內容
刪除
保留
回報此檔案為安全
深入了解
複製下載連結

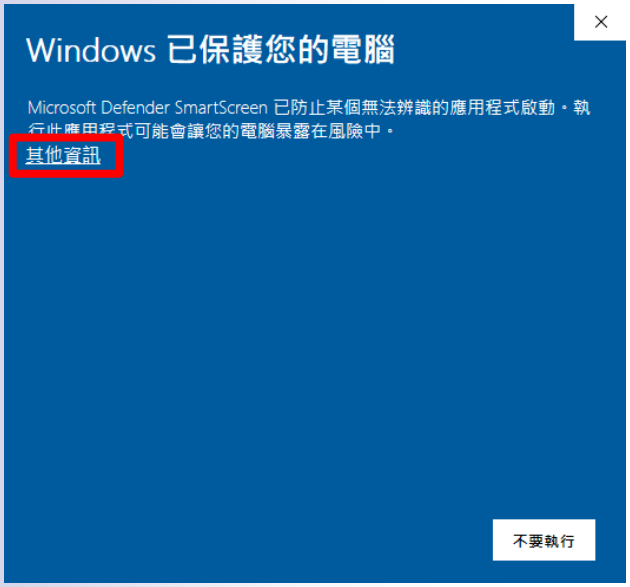
5.


開啟之前，請確定您信任
pisa3d r3.2.1_win32.exe
Microsoft Defender SmartScreen 無法驗證此檔案是否安全，因為它不是常用下載項目。開啟檔案之前，請確定您信任正在下載的檔案或檔案的來源。
名稱: pisa3d r3.2.1_win32.exe
發行者: 不明
顯示較少項目
仍要保留
回報此為安全的應用程式
深入了解
刪除
取消

軟體安裝

6. ■ 執行 

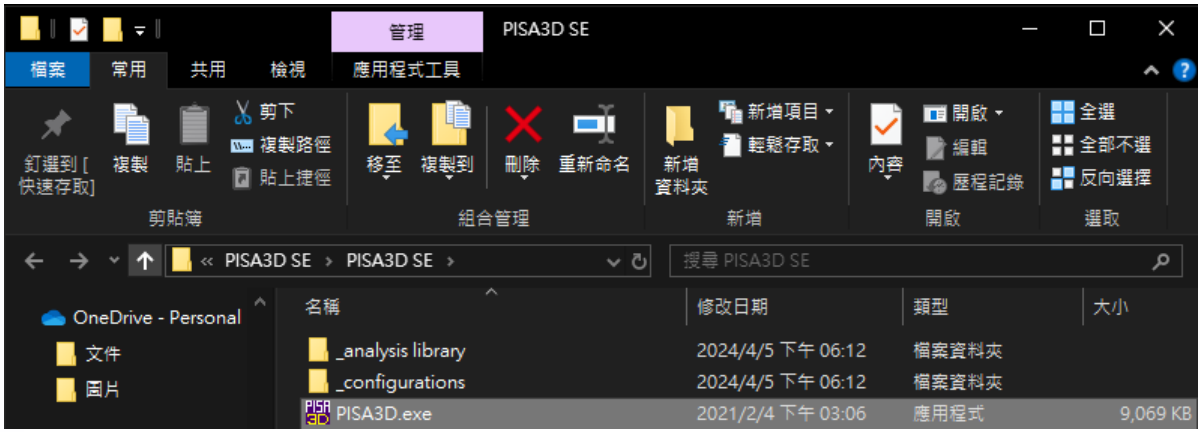
7. ■ 完成安裝 

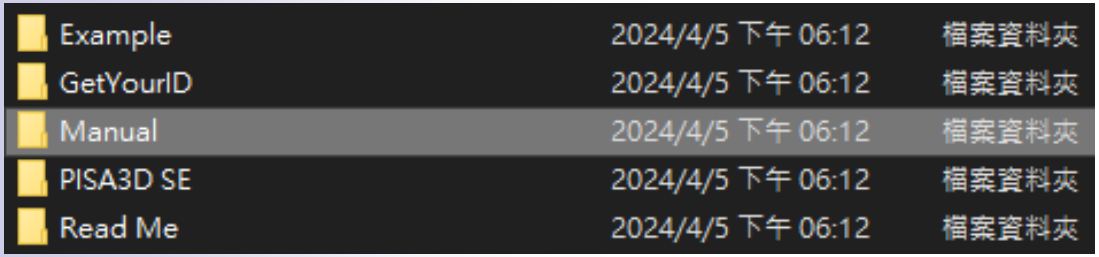


軟體安裝

■使用手冊


開啟(O)
移至 OneDrive(M)
開啟檔案位置(I)
加到壓縮檔(A)...
加到 "PISA3D R3.2.rar"(T)
壓縮並發郵件...
壓縮成 "PISA3D R3.2.rar" 並發郵件
以系統管理員身分執行(A)


管理
PISA3D SE
檔案
常用
共用
檢視
應用程式工具
釘選到 [快速存取]
複製
貼上
剪下
複製路徑
貼上捷徑
移至
複製到
刪除
重新命名
新增資料夾
新增項目
輕鬆存取
內容
開啟
編輯
歷程記錄
全選
全部不選
反向選擇
剪貼簿
組合管理
新增
開啟
選取
« PISA3D SE › PISA3D SE ›
搜尋 PISA3D SE
OneDrive - Personal
文件
圖片
名稱
修改日期
類型
大小
_analysis library 2024/4/5 下午 06:12 檔案資料夾
_configurations 2024/4/5 下午 06:12 檔案資料夾
PISA3D.exe 2021/2/4 下午 03:06 應用程式 9,069 KB


Example 2024/4/5 下午 06:12 檔案資料夾
GetYourID 2024/4/5 下午 06:12 檔案資料夾
Manual 2024/4/5 下午 06:12 檔案資料夾
PISA3D SE 2024/4/5 下午 06:12 檔案資料夾
Read Me 2024/4/5 下午 06:12 檔案資料夾


PDF
PISA user manual R3.2.pdf

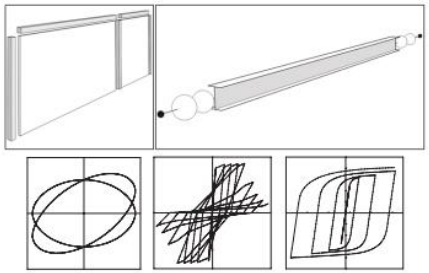
軟體安裝

Platform of Inelastic Structural Analysis for 3D Systems

PISA3D

Standard Edition R3.2

User's Manual



Bo-Zhou Lin
Yi-Jer Yu
Ming-Chieh Chuang
Keh-Chyuan Tsai

National Center for Research on Earthquake Engineering, Taiwan
Department of Civil Engineering, National Taiwan University

Table of Contents

Introduction	**I**
Notes on Running Analysis	**II**
Contents of Output Files	**IV**
PART A. Initial Setting Command	**A-1**
A01. Analysis Platform Line	A-1
A02. Analysis Title Line	A-1
A03. Force Unit Line	A-2
A04. Length Unit Line	A-2
PART B. Analysis Method Command	**B-1**
B01. One-Step Nonlinear Static Analysis	B-1
B02. Load Control Nonlinear Static Analysis	B-2
B03. Displacement Control Nonlinear Static Analysis	B-3
B04. Modal Analysis	B-5
B05. Nonlinear Dynamic Analysis (Newmark Method)	B-6
B06. Nonlinear Dynamic Analysis (OS Method)	B-8
PART C. Analysis Control Setting Command	**C-1**
C01. Geometric Nonlinear Effect	C-1
PART D. Node Data Command	**D-1**
D01. Node Generation	D-1
D02. Nodal Degree of Freedom Assign	D-2
D03. Nodal Lump Mass Assign	D-4
D04. Nodal Linear Spring	D-5
D05. Constraint Definition (Rigid Diaphragm)	D-6
PART E. Load Pattern Command	**E-1**
E01. Nodal Load	E-1
E02. Ground Acceleration Record	E-2
PART F. Material Definition Command	**F-1**
F01. Elastic Material	F-1
F02. Bilinear Material	F-3
F03. Hardening Material	F-5
F04. Degrading Material	F-8
F05. Bilinear-Elastic Material	F-12
F06. Bilinear02 Material	F-14
F07. Fracture Material	F-16
F08. Buckle Material	F-21
F09. TensionOnlyBilinear Material	F-28
PART G. Element Definition Command	**G-1**
G01. Truss Element	G-1
G02. BeamColumn Element	G-5
G03. Joint Element	G-12
G04. Panel Element	G-16
G05. Damper Element	G-22
G06. BilinearDamper Element	G-27
PART H. Other Correlative Element Command	**H-1**
H01. Frame Section Definition - BCSection Command	H-1
H02. Rigid End Zone Definition	H-3
H03. Interaction Surface Definition (Wide-Flange Steel Type)	H-5
H04. Interaction Surface Definition (RC Column Type)	H-9
H05. Element Load (Fixed End Force)	H-11
H06. Element Load Case	H-13
H07. Element Section Definition - BCSection02 Command	H-14
H08. Element Section Definition - BCSection03 Command	H-16
PART I. Output Setting Command	**I-1**
I01. Output Interval Setting Command	I-1
I02. Output Nodal Absolute Responses	I-3
I03. Output Nodal Relative Responses	I-4
I04. Output element responses in a specified file	I-5
I05. Output nodal responses in a specified file	I-6
PART J. End Input Command	**J-1**
J01. Termination of Input File	J-1