

How to Use the CFD Software: PHOENICS (v 3.5)

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PHOENICS is a general-purpose software package that predicts quantitatively how fluids (air, water, steam, oil, blood, etc) flow in and around, the associated changes of chemical and physical composition and the associated stresses in the immersed solids. In architecture, PHOENICS is used to predict the airflow in and around buildings, to improve the architectural design and thermal comfort. More information about PHOENICS can be found at <http://www.cham.co.uk>.

This little manual consists of two parts. General guidelines for using PHOENICS are introduced in the first part, general instructions. In the second part, case studies, we walk you through three examples: an outdoor airflow simulation case, an indoor simulation case, and an indoor simulation case with heat exchange.

PHOENICS is available on CD, to be copied into your personal computer. It is not currently available on departmental computers. If you choose to use the CD, please borrow it from the instructor or teaching assistant, install the program, and return the CD promptly. You will need to enter an access code to run it. Go to the PHOENICS directory, then subdirectory D_alpro, then open the config file using Notepad or Word, then change the software key to:

```
ID=-95TFSZP0-PXZGRATLR/PSE-METALA
```

This software key is good for two months, as of December 4, 2002.

Note for Version 3.5.

This manual was prepared for Version 3.1. Version 3.5 comes with extensive and excellent documentation, including numerous test cases and step-by-step instructions. The examples in this manual have not been checked with Version 3.5 but are supplied as-is because they lay out an orderly way of simulating airflows around and through buildings, without and then with heat flows.

Phoenics Cfd Manual

RM Cervero



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