
INTRODUCTION

The intention of the CivilFEM examples book is to provide a selection of cases that allows the user to obtain a clear idea of the possibilities of the software, as well as to exercise its handling.

The example-exercises that have been included in this manual have been chosen so that they are problems of the day to day practice of the civil engineer, with the enough complication to fulfil this aim, but simplifying everything that does not contribute to the intentions previously described.

Of each example a description is provided in which the exercise is defined (aim, data and results that want to be obtained), along with an *APDL* log that leads to its resolution and the requested results. The *APDL* log files can be found in CivilFEM installation folder.

This book of examples is not set out like a *Workbook*, in which all the steps are illustrated with the corresponding screens of the *GUI*. It is a text aimed to engineers with a certain knowledge of the software and that is the reason why the solution of the examples are presented in *APDL* files, in which all the needed data are parameterized at the beginning, for a better understanding and a later possible parametric study.

In those cases in which it has been considered that for a better understanding of the problem it was necessary to extend the explanations, the *APDL* listings have been commented and, in some cases, they have been illustrated with screens from the *GUI*.