

SIMULATION METHODS IN MECHANICAL CONTACT WITH FRICTION

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In this paper the contact/impact between two bodies is accentuated by simulations using the ANSYS code. In the present study selected the ANSYS/LS-DYNA code because it is used in the simulation of contact/impact. This computer code performs nonlinear transient dynamic analysis of three-dimensional structures.

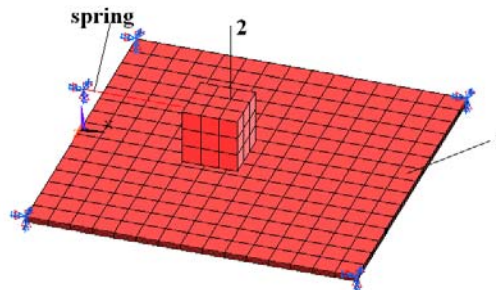


Fig.2 The problem studied

Conclusions

The efficiency of Finite Element Method in the numerical simulation, in general, substitutes the experiment, in many cases and at complex tests.

The choosing of ANSYS LS-DYNA program is realized because it comes very well to problems of contact/impact of elastic bodies; the problem analyzed doing the part thereof category.

Conclusively simulation method is preferred when the analytic study is impossible or too laborious.

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