Lipschitz Continuity of the State Function in a Shape Optimization Problem

Mohammed Hayouni

Université Henri Poincaré Nancy 1, Institut Elie Cartan, UMR CNRS 9973, B.P. 239, 54506 - Vando\!euvre-les-Nancy, France, hayouni@iecn.u-nancy.fr

Abstract: This paper deals with the existence and the regularity of state function \$u\$ in an \$N\$-dimensional shape optimization problem. We use a variational approach to get the existence of a solution \$u\$ of a variational problem. Then we prove a Lipschitz continuity result of \$u\$ by a penalization argument.



Full text of the article:

- Compressed PostScript file (116 kilobytes)
- PDF file (268 kilobytes)

[Previous Article] [Next Article] [Contents of this Number]

© 1999--2000 ELibM for the EMIS Electronic Edition