

# PRECONDITIONING OF THE STIFFNESS MATRIX OF LOCAL REFINED TRIANGULATION

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摘要

关键词

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## PRECONDITIONING OF THE STIFFNESS MATRIX OF LOCAL REFINED TRIANGULATION

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**Abstract** A preconditioning method for the finite element stiffness matrix is given in this paper. The triangulation is refined in a subregion; the preconditioning process is composed of resolution of two regular subproblems; the condition number of the preconditioned matrix is  $O(1+\log\frac{H}{h})$ , where  $H$  and  $h$  are mesh sizes of the unrefined and local refined triangulations respectively.

**Key words**

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