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|       | authors          | <ul style="list-style-type: none"><li>Alexander G. Ramm</li></ul>  | authors          | <ul style="list-style-type: none"><li>A.G.Ramm</li></ul>  | NOT<br>DUPLICATES | 1190 |
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|       | abstract         | <p>There are several methods for proving the existence of the solution to the elliptic boundary problem $(Lu=f\text{ in } D,\quad u _S=0,\quad (*) )$ . Here L is an elliptic operator of second order, f is a given function, and uniqueness of the solution to problem (*) is assumed. The known methods for proving the existence of the solution to (*) include variational methods, integral equation methods, method of upper and lower solutions. In this paper a method based on functional analysis is proposed. This method is conceptually simple. It requires some a priori estimates and a continuation in a parameter method, which is well-known.</p> | abstract         | There are several methods for proving the existence of the solution to the elliptic boundary problem $Lu=f$ in $D$ , $u _S=0$ , $(*)$ . Here L is an elliptic operator of second order, f is a given function, and uniqueness of the solution to problem (*) is assumed. The known methods for proving the existence of the solution to (*) include variational methods, integral equation methods, method of upper and lower solutions. In this paper a method based on functional analysis is proposed. This method is conceptually simple and technically is easy. It requires some known a priori estimates and a continuation in a parameter method. |                   |      |
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