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On the solvability of linear variational equations with constrains

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Abstract : The aim of this paper is to find the necessary and sufficient conditions for solvability of the linear variational equations with constrains. It is proved that the Babuška - Brezzi condition for the form b and the weak coerciveness of the form a on the kernel of b are necessary and sufficient conditions for the solvability of the linear variational equations with constrains.

Key words and phrases : Babuška–Brezzi condition, bilinear form, coercive form, weakly coercive form.

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