Quasiconvexificaion of fucntions depending on two polynomials

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In this note we are interested in the explicit computation of the quasiconvex envelope (see [1]) of some functional depending on two different polynomials having the property of changing sign on the cone of rank one matrices. This study is a continuation of a previous work dealing with functions depending on one polynomial (see [2]).

References:

[1] O. Boussaid, *Relaxation results for functions depending on polynomials changing sign on rank-one matrices*, J. Math. Anal. Appl. **349** (2009), $526 - 543$

[2] B. Dacorogna, *Direct methods in the calculus of variations.* Second edition. Applied Mathematical Sciences **78**. Springer. New York, 2008.