# Non-overlapping domain decomposition method for a variational inequality with gradient constraints

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## Abstract

© Published under licence by IOP Publishing Ltd.Non-overlapping domain decomposition method is applied to a variational inequality with nonlinear diffusion-convection operator and gradient constraints. The method is based on the initial approximation of the problem and its subsequent splitting into subproblems. For the resulting constrained saddle point problem block relaxation-Uzawa iterative solution method is applied.