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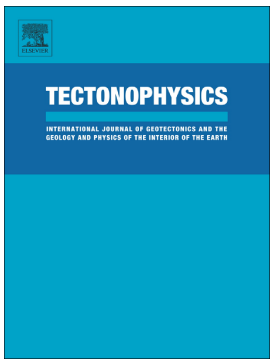

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Strain partitioning and stress perturbation around stepovers and bends of strike-slip faults: Numerical results

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Highlights

- Stepovers and bends elevate deviatoric stresses and localize plastic strain around them
- New faults tend to develop around stepovers and bends tend to improve the mechanical efficiency of fault slip
- Model results explain first-order strain partitioning of natural pull-apart basins and push-up ranges

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