

MASLOV INDEX AND GLOBAL BIFURCATION IN NONLINEAR BOUNDARY VALUE PROBLEMS

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Program

- *Maslov index.* The classical rotation number. The Maslov index for paths of symplectic matrices [10]. The number of moments of verticality [1]. Some results from matrix oscillation theory: phase angles [2, 4, 9]. Related notions of rotation number [8].
- *Multiplicity results for two-point boundary value problems.* Global bifurcation theorems and applications to BVPs associated to systems of first order equations in \mathbf{R}^{2n} ; multiplicity via the Maslov index [5, 6].
- *Dirac-type systems of first order equations in the half-line.* Global bifurcation theorems and multiplicity results for BVPs associated to planar Dirac-type systems of first order equations [7]. Some open problems.

References

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