S1-P.61
Quasisurface Nonlinear Waves in Symmetric Three–Layer Structure with Metamaterial Film

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A theory of TE-polarized nonlinear nonsymmetric quasisurface waves propagating in a symmetric planar three-layer structure with metamaterial core and nonlinear substrates is pretended. It is shown that in such structure only the nonlinear quasisurface waves exist. The dispersion laws and flows of the symmetric and antysimmetric modes depending on the layer thickness are obtained and investigated.