
On one method of solving the problem of landing module angular motion control

© N.E. Zubov^{1,2}, A.V. Lapin¹, E.A. Mikrin^{1,2}

¹ S.P. Korolev Rocket and Space Corp. “Energiya”,
Korolev, Moscow region, 141070, Russia

² Bauman Moscow State Technical University, Moscow, 105005, Russia

Application of the exact pole placement method and modal control in the presence of deterministic external disturbances to the problem of angular motion control of a landing module with a solid-propellant landing engine in the landing phase is considered. The Euler—Krylov angles are used in kinematic equations. Examples of numerical simulation are discussed.

Keywords: landing module, external disturbance, modal control, exact pole placement method, Euler—Krylov angles.

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Mikrin E.A., Dr. Sci. (Eng.), Member of the Russian Academy of Sciences, First Deputy General Designer of the S.P. Korolev Rocket and Space Corp. “Energiya”, Head of the Automatic Control System Department of Bauman Moscow State Technical University. Author of over 100 scientific articles in the field of spacecraft dynamical systems control. e-mail: Eugeny.Mikrin@rsce.ru

Zubov N.E., Dr. Sci. (Eng.), Deputy and Scientific Director of the Research and Development Centre of S.P. Korolev Rocket and Space Corp. “Energiya”, Professor of the Automatic Control System Department of Bauman Moscow State Technical University. Author of over 70 scientific articles in the field of spacecraft dynamical systems control. e-mail: Nikolay.Zubov@rsce.ru

Lapin A.V., Post-graduate of S.P. Korolev Rocket and Space Corp. “Energiya. Author of three articles on space vehicles control problems.
