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FIRST-ORDER PERTURBATIONS IN THE MOTION  
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THE EARTH. V. F. Proskurin and Yu. V. Batrakov.  
November 1980. 12p. OTS price, \$0.50.  
(NASA TECHNICAL TRANSLATION F-45. Transla-  
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An analytical theory is presented for artificial earth satellites, on the assumption that the oblateness of the planet is small enough so that the perturbation function in powers of the oblateness can be limited to the term containing only the first powers of the oblateness of the earth. This portion of the perturbation function is expanded in powers of the eccentricity. Integration of the ordinary Lagrange equations yields analytical expressions of the first-order perturbations relative to the oblateness of all of the elements of the orbit, accurate to the fourth degree of the eccentricity inclusive.

Copies obtainable from NASA, Washington

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(Initial NASA distribution:  
6, Astronomy; 7, Astro-  
physics; 16, Cosmochem-  
istry; 17, Communications  
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13-4

NASA

NASA TT F-46

National Aeronautics and Space Administration.

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(NASA TECHNICAL TRANSLATION F-46. Translation from *Iskusstvennyy Sputnik Zemli*, no. 3, 1959, p. 39-47 (USSR)) 4080059

Presentation of a general form of the first-order perturbations in the elements of an elliptic satellite orbit, caused by the resistance of the air, is undertaken. It was assumed that the earth's atmosphere has a fully spherical density distribution and that the attraction of the earth can be replaced by the attraction of the material point, placed at its center of inertia and having the same mass as the earth. These assumptions, along with the secular perturbations, are used to obtain faster perturbations whose periods do not exceed the period of one rotation of the satellite.

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DESCRIPTORS: \*Satellites (Artificial), \*Orbital trajectories, Determination, Numerical methods and procedures, Equations, Vector analysis.

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The assumption was expressed that the screening con-  
stants for the 3d- and 4d-electron shells calculated by  
the Slater rules are overestimated by the value of the  
outer screening. Using this assumption, the ionic re-  
fractions of all elements of the "b" subgroups calculated  
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