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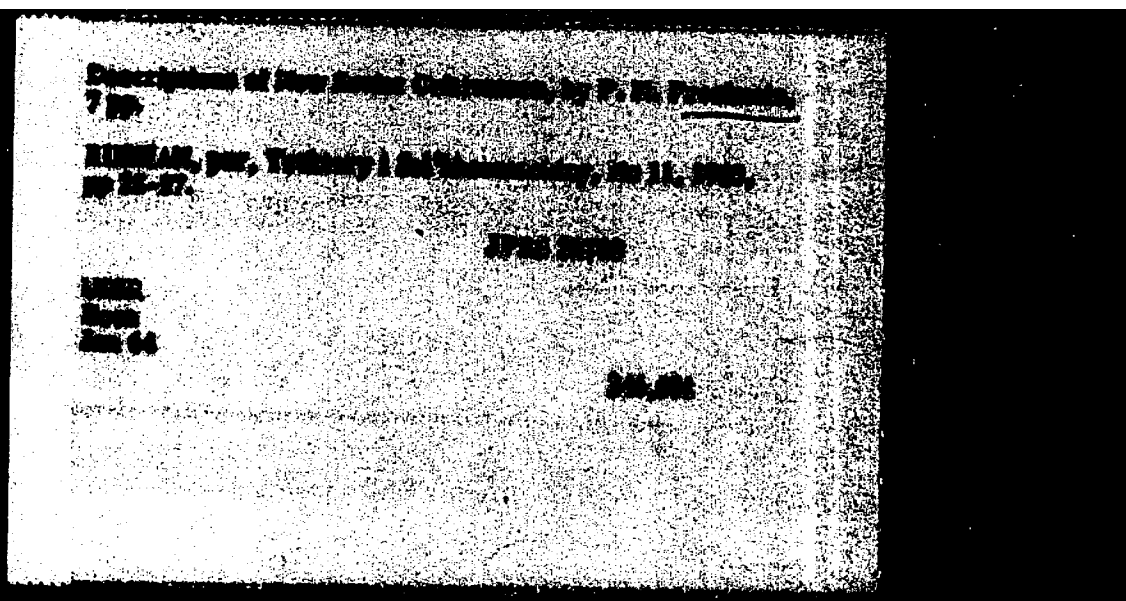
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FIRST-ORDER PERTURBATIONS IN THE MOTION
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(NASA TECHNICAL TRANSLATION F-45. Transla-
tion from *Iskusstvennyy Sputnik Zemli*, no. 3, 1959,
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An analytical 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.

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(Initial NASA distribution:
6, Astronomy; 7, Astro-
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NASA TT F-46

National Aeronautics and Space Administration.
PERTURBATIONS OF ORBITS OF ARTIFICIAL
SATELLITES DUE TO AIR RESISTANCE. Yu. V.
Batrakov and V. F. Proskurin. November 1960.
13p. OTS price, \$0.50.

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

Presentation of a general form of the first-order per-
turbations 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 assump-
tions, along with the secular perturbations, are used
to obtain faster perturbations whose periods do not
exceed the period of one rotation of the satellite.

Copies obtainable from NASA, Washington

- I. Batrakov, Yu. V.
- II. Proskurin, V. F.
- III. NASA TT F-46
- IV. *Iskusstvennyy Sputnik Zemli*, no. 3, 1959,
p. 39-47 (USSR)

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geodesy; 30, Physics,
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particle; 33, Physics,
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mechanics; 47, Satellites.)

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Available free from Land-Air as LTS-1.
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Trans. from [Iskustvennyye Sputniki Zemli] (USSR)
1959, no. 3.

The motion of the satellite and the gravitational field of
an oblate planet is considered under the assumptions
that the inclination of the orbit may be arbitrary, that
the planet has the form of a smooth ellipsoid of revolution,
and that the polar compression is small enough so
that the expansion of the perturbation function can be
restricted to the first degree term. The perturbation
function is expanded into a power series in terms of the
eccentricity; the coefficients of this series are ex-
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- I. Proskurin, V. F.
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