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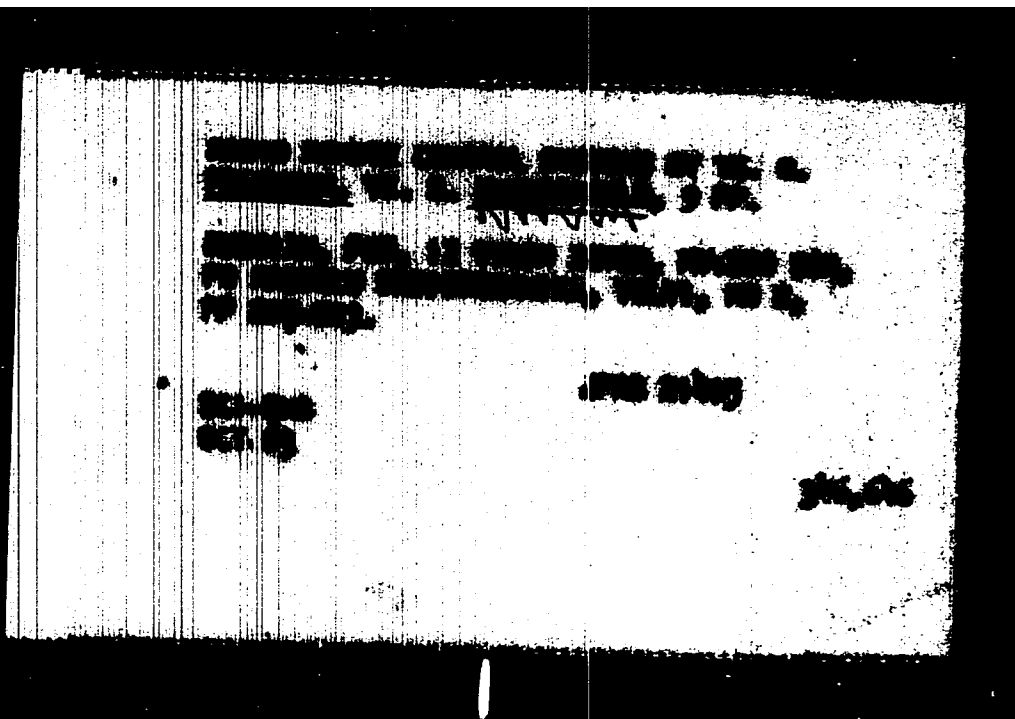
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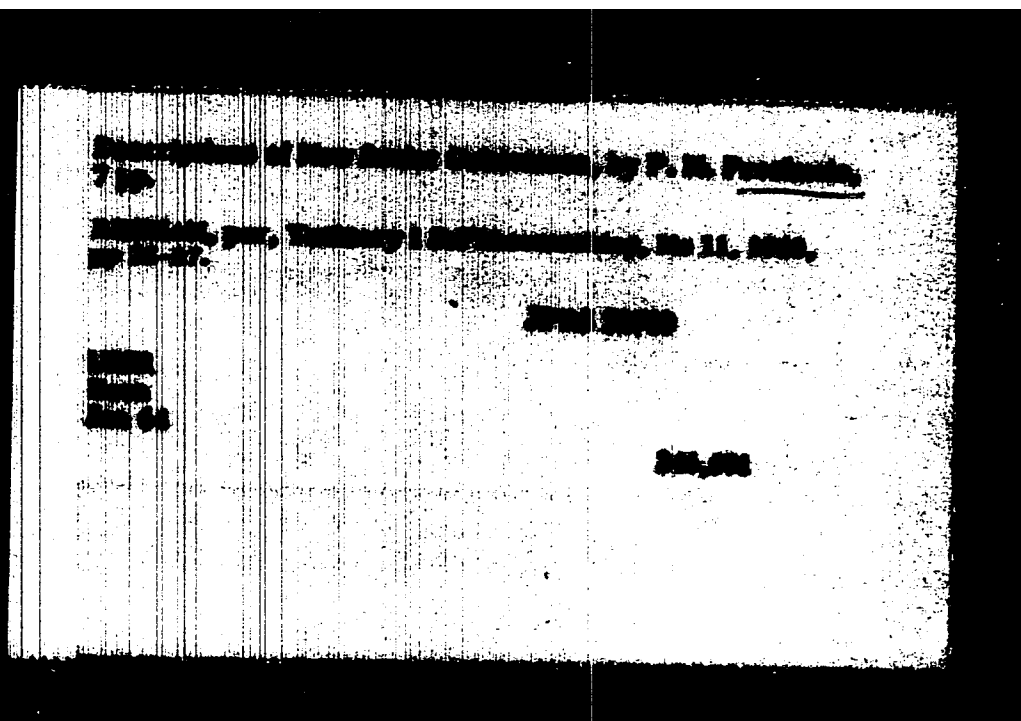
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(NASA TECHNICAL TRANSLATION F-45. Transla-
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Presentation of a general form of the first-order per-
turbations in the elements of an elliptic satellite orbit,
caused by the resistance of the air, is 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.

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The motion of the satellite and the gravitational field of
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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
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