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DESCRIPTORS: *Differential equations, Complex variables, Numerical analysis.

A system of ordinary differential equations is discussed, where the derivatives of the "rapidly-oscillating" variables are included with a small parameter, ϵ . "Averaged" equations are introduced, which describe, approximately, the variation of the slowly varying variables. It is shown that, as $\epsilon \rightarrow 0$, these variables, computed from the initial system of differential equations, converge to the solution of the averaged system. (Mathematics, TT, v. 7, no. 9) (over)

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THE LINEAR VARIATION IS THE LENGTH OF THE
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DESCRIPTORS: *Measure theory, Equations,
Mathematics, *Differential geometry, Topology.

It is demonstrated in the present paper that for suffi-
ciently simple sets (smooth arcs) the linear variation
of the set and its length are coinciding with an accuracy
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