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including the branches of hydrodynamics, thermodynamics, and particularly quantum mechanics. By extension, use of complex analysis also has applications in engineering.

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omit, the reader will find here - RITT's theorem on asymptotic power series expansions, which provides a function-theoretic interpretation of the famous theorem of E. BOREL to the effect that any sequence of complex numbers is the sequence of derivatives at 0 of some infinitely differentiable function on the line.

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It is very important in the branch of calculus known as Complex Function theory, where geometric methods play an important role. We mention that the line through two distinct points $P_1 = (x_1, y_1)$ and $P_2 = (x_2, y_2)$ has the form $z = (1 - t)z_1 + tz_2$, $t \in \mathbb{R}$, where $z = x + iy$ is any point on the line and $z_i = x_i + iy_i$, $i = 1, 2$.

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Complex function theory is a remarkably beautiful piece of pure mathematics, and at the same time an indispensable tool in number theory and in many fields of applied mathematics and mathematical methods. Of central interest are mappings of the complex plane into itself which are differentiable.

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