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namely solutions f of
Laplace's equation $\Delta f = 0$. The
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mathematical physics of
the 19th century when it
was noticed that harmonic

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[Analytic] Let $D \subset \mathbb{C}$ be an
open set. A continuous
function $f: D \rightarrow \mathbb{C}$ is called

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analytic in D , if for all $z \in D$
the complex partial
derivative $\frac{\partial f}{\partial z} := \lim_{h \rightarrow 0} \frac{f(z+h) - f(z)}{h}$
exists and is finite.

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solutions f of Laplace's
equation $\Delta f = 0$. The origins
of this field lie in
mathematical physics of

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the 19th century when it
was noticed that harmonic

Concept of complex
potential For a given real
potential $\phi(x,y)$, we can
uniquely (except for an
additive constant)
determine a conjugate

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$u(x,y)$ by CR-equations,
such that complex

potential $F(z=x+iy)=$

$u(x,y)+i v(x,y)$ is analytic.

As a result, $F(z)$ maps
curves in the xy -plane
onto curves in the $??$ -plane

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Complex Manifolds
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(with Appendix on the
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of complex algebraic
curves was one of the
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complex variable math
(such as 18.075). Bernoulli
Equation The Bernoulli
equation is the most

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widely used equation in fluid mechanics, and assumes frictionless flow with no work or heat transfer. However, flow may or may not be irrotational. When flow is irrotational it reduces nicely using the potential

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function in place of the
velocity vector.

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variable that seem most

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we study potential theory
from all three perspectives
and show how these fields
interact. One of the
fundamental notions in
this course is that of polar

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set . Analytically, a polar
set is a set that does not
carry a set ...

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Let K be a compact set in the complex plane of positive logarithmic capacity and denote by the component of $C_n K$ that contains infinity, let $f \in C(\infty)$. Then, for every $\epsilon > 0$, there exist p and q in $P[z]$, such that $|\frac{f(z)}{p(z)} - q(z)| < \epsilon$

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+ $q(z)g_k L_1()$ ": Potential
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