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~~Divergence and~~

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~~Electromagnetism~~

~~in five minutes~~

~~(Maxwell).~~

Waarom gebeuren

dingen?

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Deriving

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and curl**

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straightforward
calculation will
show that

$\nabla(\nabla\text{grad}\nabla\text{div}$

$\mathbf{F} -$

$\nabla\text{curl}\nabla\text{curl}$

$\mathbf{F} =$

$\Delta \mathbf{F}$

$\nabla(\nabla\cdot\mathbf{F}) - \nabla\times(\nabla\times\mathbf{F})$.. The vector

Laplacian also

arises in

diverse areas of

mathematics and

the sciences.

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The frequent appearance of the Laplacian and vector

Laplacian in applications is really a testament to the usefulness of ∇ ($\nabla \cdot$, ∇), and $\nabla \times$.

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that Theorem

18.1. Let $A \subset \mathbb{R}^n$

be open and let

$f: A \rightarrow \mathbb{R}^m$ be a di

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function. If $\tilde{r}: I \rightarrow \mathbb{R}^n$ is a

smooth curve in \mathbb{R}^n and $f: \mathbb{R}^n \rightarrow \mathbb{R}$ is a

scalar field, then the function $f \circ \tilde{r}: I \rightarrow \mathbb{R}$

is differentiable and

$$\frac{d}{dt}(f \circ \tilde{r})(t) = \nabla f(\tilde{r}(t)) \cdot \tilde{r}'(t)$$

Proof. Let $f: \mathbb{R}^n \rightarrow \mathbb{R}$ be a

scalar field and $\tilde{r}: I \rightarrow \mathbb{R}^n$ a smooth curve.

By the chain rule, $\frac{d}{dt}(f \circ \tilde{r})(t) =$

$\nabla f(\tilde{r}(t)) \cdot \tilde{r}'(t)$

$= \nabla f(\tilde{r}(t)) \cdot \tilde{r}'(t)$

$= \nabla f(\tilde{r}(t)) \cdot \tilde{r}'(t)$

$= \nabla f(\tilde{r}(t)) \cdot \tilde{r}'(t)$

0: Corollary

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18.2. A closed
parametrised
curve is never
the ow line of

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and all that -
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text (pamphlet)
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should be in

everyone's

library.

Preliminaries

Before we dig

into the

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details, we need
to set up a few
preliminary
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In Lecture 6 we

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Lecture 5 Vector

Operators: Grad,

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differentiable
scalar field is
always the zero

vector: $\nabla \times (\nabla \cdot \mathbf{F})$

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-forms is always
(fiberwise)
1-dimensional
and can be
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while the spaces
of 1-forms and
($n - 1$) -forms
are always
fiberwise n
-dimensional and

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can be All That An

identified with
vector fields.

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Fundamental

theorems for

gradient,

divergence, and

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curl Figure 1: An

Fundamental

theorem of
calculus relates

$\int_a^b \frac{df}{dx} dx$

and $f(b) - f(a)$.

You will recall

the fundamental

theorem of

calculus says $\int_a^b \frac{df}{dx} dx$

$= f(b) - f(a)$; (1)

in other words

it's a

fundamental

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connection
between the rate
of change of the
function over

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Section 6-1: An

Curl and
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Divergence.

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get into surface
integrals we
need to get some
introductory
material out of
the way. That is
the purpose of
the first two
sections of this
chapter. In this

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section we are
going to

introduce the
concepts of the

curl and the

divergence of a
vector. Let's

start with the
curl.

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