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Green's  
functions  
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Green's  
Functions for  
Partial  
Differential

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~~Finding the  
Green's Function  
of  $d^2/dx^2$~~

~~Green's  
functions Using  
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Functions to  
Solve~~

~~Nonhomogeneous  
ODEs ~~Mod-09  
Lec-23~~~~

~~Fundamental  
Green function~~

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~~for A2 (Part I)~~

*L21.3 Integral  
equation for  
scattering and  
Green's function  
U2. The Green's  
Function*

---

Green's Function

---

What is Green's  
identity?

~~Classical  
Mechanics,  
Lecture 5:  
Harmonic~~

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~~Oscillator.  
Damped \u0026  
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Stokes' Theorem



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PDEs, Laplace  
Fourier  
examples,  
2-14-17, part 1  
How I Read and**

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**Why** Green's  
Theorem One  
Region  
(KristaKingMath)

---

The Fundamental  
Theorem for Line  
Integrals

---

Using greens  
function to  
solve a second  
order  
differential  
equations

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example 12815How  
to apply Green's  
~~theorem~~ Green's  
Function

## **INTRODUCTION TO GREEN'S FUNCTION NON-HOMOGENEOUS DIFFERENTIAL EQUATIONS**

---

Greens Function-  
One dimensional

---

Green's

Functions -

Sixty Symbols

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Diffusion Of

equation: Method  
of Greens  
functions.

~~LECTURE - 01 +  
Basic Technique  
of Green's  
Function +  
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Physics + NET +  
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JEST~~

**Differential  
Equations Book I**

# Where To Download

**Use To.. .** *Class*

*U. Green's*

*Functions*

~~Green's function~~

~~for non-~~

~~homogeneous~~

~~boundary value~~

~~problem~~ *Method*

*Of Green S*

*Functions*

for any scalar

function  $G$  and

vector valued

function  $F$ .

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Setting  $F = \nabla u$  gives what is called Green's First Identity,

$$dA = \hat{n} \cdot \nabla u \, dS \quad (2)$$

Interchanging  $G$  and  $u$  and subtracting gives Green's Second Identity,

$$\int_V (u \nabla^2 G - G \nabla^2 u) \, dV + \int_S (u \nabla G - G \nabla u) \cdot \hat{n} \, dS =$$

# Where To Download

(3) D C 2  
Solution of  
Laplace and  
Poisson equation

*Method of  
Green's  
Functions - MIT  
OpenCourseWare*  
Since the  
Green's function  
solves.  $\mathcal{L} G(x, y) = \delta(x - y)$

# Where To Download

$(x, y) = \delta(x-y)$  and the  
delta function  
vanishes outside  
the point.  $x = y$ .  
 $x=y$   $x = y$ ,  
one method of  
constructing  
Green's  
functions is to  
instead solve  
the homogeneous  
linear



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differential  
equation.  $L G ($   
 $x) = 0.$

## Functions Mit

*Green's*

*Functions in*

*Physics |*

*Brilliant Math &*

*Science Wiki*

In particular,

Green's function

methods are

widely used in,

e.g., physics,

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Method Of  
Green's  
Functions Mit

and engineering.  
More precisely,  
given a linear  
differential  
operator acting  
on the  
collection of  
distributions  
over a subset of  
some Euclidean  
space, a Green's  
function at the  
point  
corresponding to

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is any solution  
of (1) where  
denotes the  
delta function.

*Green's Function*  
-- from Wolfram  
*MathWorld*

In this video, I  
describe how to  
use Green's  
functions (i.e.  
responses to  
single impulse

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Method Of  
Green's  
Functions Mit

inputs to an  
ODE) to solve a  
non-homogeneous  
(Sturm-  
Liouville) ODE  
s...

*Using Green's  
Functions to  
Solve  
Nonhomogeneous  
ODEs*

The first method  
simply used a

# Where To Download

Green's function  
developed for  
Helmholtz's  
equation  $\nabla^2 u + k^2 u = 0$   
and took the  
limit  $k \rightarrow 0$ .

The second  
method wrote the  
Green's function  
as a sum of  
eigenfunctions  
that satisfied  
the boundary  
conditions. The

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coefficients were then chosen so that the correct singular behavior occurred at the source point.

*GREEN'S  
FUNCTIONS WITH  
APPLICATIONS*

*Second Edition*

Solving these  
two equations

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Method of B

gives the

Green's function

$$G(x; \xi) = \frac{1}{2} \sin \pi \left[ \Theta(\xi - x) \sin(\pi(1 - \xi)) \sin \pi x + \Theta(x - \xi) \sin(\pi(1 - x)) \sin \pi \xi \right]$$

(7.19) Using this Green's function we are immediately able to write down the complete solution to  $-y'' = f(x)$

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Method Of  
Green's  
Functions Mit

$-y = f(x)$  with  
 $y(0) = y(1) = 0$   
as  $y(x) =$   
 $\sin(1-x) \sin 1! \int_0^x f(\xi) \sin \xi d\xi +$   
 $\sin x \sin 1! \int_x^1 f(\xi) \sin(1-\xi) d\xi.$   
(7.20)

*7 Green's  
Functions for  
Ordinary  
Differential  
Equations*



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9.3 Finding of the Green's function  
The above method is general, but to find the Green's function it is easier to restrict the form of the differential equation. To emphasise that the method is not restricted

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to dependence on  
time, now  
consider a  
spatial second-  
order  
differential  
equation of the  
general form  $d^2y$   
 $dx^2$

*9 Green's  
functions*

That is, the  
Green's function

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for a domain  $\Omega \subset \mathbb{R}^n$  is the function defined as  $G(x; y) = \Phi(y; x) - h(x; y)$   $x, y \in \Omega; x \neq y$ ; where  $\Phi$  is the fundamental solution of Laplace's equation and for each  $x \in \Omega$ ,  $h_x$  is a solution of (4.5). We leave

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Method Of  
Green's  
Functions Mit

it as an  
exercise to  
verify that  
 $G(x; y)$  satisfies  
(4.2) in the  
sense of  
distributions.  
Conclusion: If  
...

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In our  
construction of  
Green's  
functions for  
the heat and  
wave equation,  
Fourier  
transforms play  
a starring role  
via the  
'differentiation  
becomes  
multiplication'  
rule. We derive

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Method's  
identities that  
enable us to  
construct  
Green's  
functions for  
Laplace's  
equation and its  
inhomogeneous  
cousin,  
Poisson's  
equation.

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*PDEs -*

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The concept of a Green function is most easily illustrated by considering the dynamics of a particle initially at rest under the influence of a

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time-dependent force  $F(t)$ . One first considers a force acting for a very short time: a sharp blow or impulse. The impulse is chosen to induce a unit change in momentum at a time  $t$ .



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*Method Of*

they exist. Our  
main tool will  
be Green's

functions, named  
after the

English

mathematician

George Green

(1793–1841). A

Green's function

is constructed

out of two

independent

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solutions  $y_1$   
and  $y_2$  of the  
homo-geneous  
equation  $L[y] =$   
0: (5.9) More  
precisely, let  $y_1$   
be the unique  
solution of the  
initial value  
problem  $L[y] =$   
0;  $y(a) = 1;$   
 $y'(a) = 1$  (5.10)  
and  $y_2$

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5 *Boundary value  
problems and  
Green's  
functions* Mit

Green's function  
the Green's  
function  $G$  is  
the solution of  
the equation  $LG$   
 $= \delta$ , where  $\delta$  is  
Dirac's delta  
function; the  
solution of the  
initial-value

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Method Of  
Green's  
Functions Mit

problem  $Ly = f$   
is the  
convolution  $(G$   
 $* f)$ , where  $G$   
is the Green's  
function.

*Green's function*  
- *Wikipedia*

In many-body  
theory, the term  
Green's function  
(or Green  
function) is

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sometimes used interchangeably with correlation function, but refers specifically to correlators of field operators or creation and annihilation operators. The name comes from the Green's functions used

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Method Of  
inhomogeneous  
differential  
equations, to  
which they are  
loosely related.  
(Specifically,  
only two-point  
'Green's  
functions' in  
the case of a  
non-interacting  
system are  
Green's

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functions in the  
mathematical  
sense; the li  
Functions Mit

*Green's function  
(many-body  
theory) -  
Wikipedia*

Topic:

Introduction to  
Green's  
functions

(Compiled 20  
September 2012)

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In this lecture  
we provide a  
brief  
introduction to  
Green's  
Functions. Key  
Concepts:  
Green's  
Functions,  
Linear Self-  
Adjoint  
Differential  
Operators, . 9 In  
troduction/Overv



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Method 9.1 Green's

Function

Example: A

Loaded String

Figure 1. Model

of a loaded

string

*Topic:*

*Introduction to*

*Green's*

*functions*

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the highly-

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acclaimed guide  
to boundary  
value problems,  
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approximation  
theory. Green's  
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Problems, Third  
Edition  
continues the

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two prior  
editions by  
providing  
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techniques for  
the use of  
differential and  
integral  
equations to ...

*Green's  
Functions and  
Boundary Value  
Page 43/49*

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*Problems / Wiley*

•••  
**Green S**

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**Functions Mit**  
functions for an

elastic layered  
medium can be  
expressed as a  
double integral  
over frequency  
and horizontal  
wavenumber. We  
show that, for  
any time window,  
the wavenumber

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integral can be  
exactly  
represented by a  
discrete  
summation.

*A simple method  
to calculate  
Green's  
functions for  
elastic ...*

Some major  
matrix methods  
for computation

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of Green's  
functions of a  
layered half-  
space model are  
compared. It is  
known that the  
original Thomson-  
Haskell  
propagator  
algorithm has  
the loss-of-  
precision  
problem when  
waves become

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*A simple orthono  
rmalization*

*method for  
stable and ...*

Our method to  
solve a  
nonhomogeneous  
differential  
equation will be  
to find an  
integral  
operator which

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Green's  
Functions, Mit

produces a  
solution  
satisfying all  
given boundary  
conditions. The  
integral  
operator has a  
kernel called  
the  
Greenfunction ,  
usually denoted  
 $G(t, x)$ . This is  
multiplied by  
the



# Where To Download

nonhomogeneous  
term and  
integrated by  
one of the  
variables.

Copyright code :  
4f091b3563827567  
d4fe5b49c61abdbb