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INTRODUCTION

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Green's Functions

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for non-~~

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Green S Functions

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for any scalar function G and vector valued function F . Setting $F = \nabla u$ gives what is called Green's First Identity, $dA = \hat{n} \cdot \nabla G \nabla^2 u + \nabla u \cdot \nabla G - G(\nabla u \cdot \nabla u)$. Interchanging G and u and subtracting gives Green's Second Identity, $u \nabla^2 G - G \nabla^2 u + \nabla u \cdot \nabla G - \nabla G \cdot \nabla u = \nabla \cdot (u \nabla G - G \nabla u)$.

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$\oint u \, dA = (\mathbf{u} \nabla G - G \nabla \mathbf{u}) \cdot \mathbf{n} \, dS. \quad (3) \quad D \subset \mathbb{R}^2$
Solution of Laplace
and Poisson
equation

*Method of Green's
Functions - MIT*

OpenCourseWare

Since the Green's
function solves. $L G$

$G(x, y) = \delta(x - y)$

$\mathcal{L}\{G$

$(x, y) = \delta(x - y)$

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$$L G(x, y) = \delta(x - y)$$

and the delta function vanishes outside the point. $x = y$. $x = y$, one method of constructing Green's functions is to instead solve the homogeneous linear differential equation. $L G(x) = 0$.

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*Green's Functions
in Physics | Brilliant
Math & Science
Wiki*

In particular,
Green's function
methods are widely
used in, e.g.,
physics, and
engineering. More
precisely, given a
linear differential
operator acting on
the collection of

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distributions over a subset of some Euclidean space, a Green's function at the point corresponding to is any solution of (1) where denotes the delta function.

*Green's Function --
from Wolfram
MathWorld*

In this video, I

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describe how to use Green's functions (i.e. responses to single impulse inputs to an ODE) to solve a non-homogeneous (Sturm-Liouville) ODE s...

*Using Green's
Functions to Solve
Nonhomogeneous
ODEs*

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The first method simply used a 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

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conditions. The 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 for A and

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B gives the Green's function $G(x;\xi) = \frac{1}{\sin 1} [\Theta(\xi - x) \sin(1 - \xi) \sin x + \Theta(x - \xi) \sin(1 - x) \sin \xi]$

(7.19) Using this Green's function we are

immediately able to write down the complete solution to $-y'''' - y = f(x)$ with $y(0) = y(1) = 0$ as $y(x) = \sin(1 - x)$

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$$\sin(1-x) \int_0^x f(\xi) \sin \xi d\xi + \sin x \int_x^1 f(\xi) \sin(1-\xi) d\xi. \quad (7.20)$$

7 Green's Functions for Ordinary Differential Equations

9.3 Finding the Green's function

The above method
is general, but to
find the Green's

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function it is easier to restrict the form of the differential equation. To emphasise that the method is not restricted to dependence on time, now consider a spatial second-order differential equation of the general form $\frac{d^2y}{dx^2}$

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9 Green's functions

That is, the Green's

function for a

domain $\Omega \subset \mathbb{R}^n$ is

the function

defined as $G(x; y) =$

$\Phi(y - x) - h(x; y)$

$\Omega; x \neq y$; where Φ

is the fundamental

solution of

Laplace's equation

and for each $x \in \Omega$,

$h(x; \cdot)$ is a solution of

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

*4 Green's
Functions -
Stanford University*
In our construction
of Green's
functions for the

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heat and wave equation, Fourier transforms play a starring role via the 'differentiation becomes multiplication' rule. We derive Green's identities that enable us to construct Green's functions for Laplace's equation and its

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inhomogeneous
cousin, Poisson's
equation.

*10 Green's
functions for PDEs -
University of
Cambridge*

The concept of a
Green function is
most easily
illustrated by
considering the
dynamics of a

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particle initially at rest under the influence of a 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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*The Green of Green
Functions Mit
Functions*

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

5 Boundary value problems and Green's functions

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Green's function
the Green's
function G is the
solution of the
equation $LG = \delta$,
where δ is Dirac's
delta function; the
solution of the
initial-value
problem $Ly = f$ is
the convolution (G
 $* f$), where G is the
Green's function.

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*Green's function -
Wikipedia*

In many-body theory, the term Green's function (or Green function) is sometimes used interchangeably with correlation function, but refers specifically to correlators of field operators or creation and

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annihilation operators. The name comes from the Green's functions used to solve inhomogeneous differential equations, to which they are loosely related.

(Specifically, only two-point 'Green's functions' in the

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case of a non-interacting system are Green's functions in the mathematical sense; the li

Green's function (many-body theory) - Wikipedia
Topic: Introduction to Green's functions
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(September 2012)

In this lecture we provide a brief introduction to

Green's Functions.

Key Concepts:

Green's Functions,
Linear Self-Adjoint
Differential

Operators, . 9 Introduction/Overview

9.1 Green's

Function Example:

A Loaded String

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Figure 1. Model of
a loaded string

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Green's functions
for an elastic
layered medium
can be expressed
as a double
integral over
frequency and
horizontal
wavenumber. We

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show that, for any time window, the wavenumber integral can be exactly represented by a discrete summation.

A simple method to calculate Green's functions for elastic

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Some major matrix

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methods for computation 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 evanescent.

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*A simple
orthonormalization
method for stable
and ...*

Our method to solve a nonhomogeneous differential equation will be to find an integral operator which produces a solution satisfying all given

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boundary conditions. The integral operator has a kernel called the Greenfunction , usually denoted $G(t,x)$. This is multiplied by the nonhomogeneous term and integrated by one of the variables.

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