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symmetric Wave  
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~~But Quickly Quantum~~

~~Wave Functions:~~

~~What's Actually~~

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~~Instant Egghead #50~~

~~L5.5 Interpretation of~~

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~~Wave Function PSWF~~

~~Position and~~

~~momentum operators~~

~~acting on wave~~

~~functions~~

~~Wave Particle Duality~~



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Myths The Quantum

Experiment that

Broke Reality | Space

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Atom Wavefunctions

(Orbitals) What is The

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Function, Exactly?

Visualization of

Quantum Physics

(Quantum Mechanics)

~~Quantum Wave~~

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~~Function Visualization~~

~~Operators in~~

~~Wave Functions~~

~~Quantum Mechanics~~

~~for Dummies~~

~~Ever~~

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~~Operators and~~

~~Commutators?~~

~~(Explained for~~

~~Beginners)!~~

~~Understanding~~

~~Position,~~

~~velocity, and~~

~~momentum from the~~

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wavefunction Is the  
wave-function real or  
just a way to describe  
the world? Cutdown

pswf ~~Wave Functions  
of the Particle in a  
Box (ITA 2015)~~

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Hassibi Position and  
Momentum Operators  
in Quantum

Mechanics Quantum

Chemistry 3.4 -

Interpreting the

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Wavefunction Prolate  
Spheroidal Wave  
Functions Of

Of order zero  
In mathematics, the  
Prolate spheroidal  
wave functions

(PSWF) are a set of  
orthogonal  
bandlimited

approximation  
functions. They are  
eigenfunctions of a  
time-limiting

operation followed by  
a lowpassing

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Spheroidal

Wave Functions

Of Order Zero

Wikipedia

of prolate spheroidal  
wave functions

(PSWF) in the form of  
a new orthogonal

expansion which we  
have named the

Slepian series. We em  
pirically show that the

Slepian series is potenti

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ally optimal over more conventional orthogonal expansions for discontinuous

functions such as the square wave among others. With regards to interpolation, we

Approximation

Prolate spheroidal wave functions, an introduction to the ...

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Sciences

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Wave Functions of  
Order Zero ...

Prolate spheroidal  
wave functions,

fourier analysis and  
uncertainty — I.

Abstract: A complete  
set of bandlimited  
functions is described  
which possesses the  
curious property of  
being orthogonal over  
a given finite interval  
as well as over  $(-\infty, \infty)$ ,



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). Properties of the functions are derived and several applications to the representation of signals are made.

Prolate spheroidal wave functions, fourier analysis and ...  
The present paper finds a new kind of quaternionic signals whose energy

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spheroidal is maximal in both time and frequency under the quaternionic

Fourier transform.

The new signals are a generalization of the classical prolate

spheroidal wave

functions to a

quaternionic space, which are called the

quaternionic prolate

spheroidal wave

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spheroidal

Wave Functions

Of Order Zero

associated with the ...

Cuiming Zou, Kit Ian

Kou, Joao Morais,

Prolate spheroidal

wave functions

associated with the

quaternionic Fourier

transform,

Mathematical

Methods in the

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Applied Sciences,

10.1002/mma.4439,  
41, 11, (4003-4020),  
(2017).

Mathematical

Prolate Spheroidal

Wave Functions,

Fourier Analysis and

Approximation

Abstract: A discrete

time series has

associated with it an

amplitude spectrum

which is a periodic

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spherical frequency.

This paper

investigates the

extent to which a

time series can be

concentrated on a

finite index set and

also have its

spectrum

concentrated on a

subinterval of the

fundamental period

of the spectrum. Key

to the analysis are

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certain sequences,  
called discrete prolate  
spheroidal sequences,  
and certain functions  
of frequency called  
discrete prolate  
spheroidal functions.

Prolate spheroidal  
wave functions,  
fourier analysis, and  
...

Abstract | For xed  
c;the Prolate

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Spheroidal Wave Functions (PSWFs)  $p_n(c)$  form a basis with remarkable properties for the space of band-limited functions with bandwidth  $c$ . They have been largely studied and used after the seminal work of D. Slepian, H. Landau and H. Pollack. Recently,

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Spheroidal

Spheroidal Wave  
Functions. - arxiv.org

As demonstrated by

Slepian et al. in a

sequence of classical  
papers (see Slepian

(1983) , Slepian and

Pollak (1961) ,

Landau and Pollak

(1961) , Slepian and

Pollak (1964) ,

Slepian (1965) ) ,

prolate spheroidal



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wave functions

(PSWFs) provide a natural and efficient tool for computing

with bandlimited

functions defined on an interval. Recently, PSWFs have been

becoming

increasingly popular in various areas in which such functions

occur – this includes

physics (e.g. wave

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phenomena, fluid ...

Wave Functions

On the evaluation of  
prolate spheroidal

wave functions and ...

30.13 Wave Equation  
in Prolate Spheroidal  
Coordinates; 30.14

Wave Equation in

Oblate Spheroidal  
Coordinates; 30.15

Signal Analysis;

Computation. 30.16

Methods of

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Computation; 30.17

Tables; 30.18

Software

DLMF: 30 Spheroidal

Wave Functions

Spheroidal wave functions are

solutions of the

Helmholtz equation

that are found by writing the equation

in spheroidal

coordinates and

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applying the technique of separation of variables, just like the use of spherical coordinates lead to spherical harmonics. They are called oblate spheroidal wave functions if oblate spheroidal coordinates are used and prolate spheroidal wave

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spheroidal  
functions if prolate  
spheroidal  
Wave Functions  
coordinates are used.

Of Order Zero

Spheroidal wave  
function - Wikipedia

The new signals are a  
generalization of the  
prolate spheroidal  
wave functions (also  
known as Slepian  
functions) to

quaternionic space,  
which are called

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quaternionic prolate  
spheroidal wave  
functions.

Of Order Zero

Prolate Spheroidal

Wave Functions

Associated with the ...

GENERALIZED

PROLATE

SPHEROIDAL WAVE

FUNCTIONS 107

Hence we have

defined  $A_{k,j}(a, t_i, n)$

to be zero if  $|k-1| > 2j$

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or  $k < -1$  or  $k = 0$   
and  $j \sim 0$ . Besides this  
we have  $A'_m(a, t_i, n)$   
 $= 0$   $m \neq 0$ ,  $A_0(a, t_i, n)$   
 $= 1$ ,  $a_0(a, [3, n]) = 0$ . The  
eigen values and  
eigen functions for  
eq. (1.1) have been  
given below

Generalized prolate  
spheroidal wave  
functions

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Functions of Order  
Zero: Mathematical  
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Of Order Zero

Prolate Spheroidal  
Wave Functions of  
Order Zero ...

Prolate spheroidal  
wave functions  
(PSWFs) give a very  
convenient basis for  
representing and  
manipulating  
bandlimited functions

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spheroidal  
restricted to a  
compact domain  $D$ .  
The 1D case, in which  
 $D$  is an interval, is  
investigated in  
[3,5,6].

Bandlimited  
Prolate spheroidal  
wave functions on a  
disc—Integration ...  
Prolate Spheroidal  
Wave Function The  
wave equation in  
prolatespheroidal

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coordinates is (1)

where (2) Substitute  
in a trial solution (3)

(4) The radial

differential equation

is (5) and the angular  
differential equation

is (6) Note that these

are identical (except  
for a sign change).

The prolate angular  
function of the first

kind is given by

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Spheroidal

Wave Function :

Definition & Problems

Of Order Zero

...

A system of linear

prolate spheroidal

functions is used for

the parametrization

of processing of small-

angle scattering (SAS)

data in the

application for

monodisperse

systems.

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Spheroidal

(PDF) Prolate radial  
spheroidal wave  
functions of order zero

In this study, a new  
approach for deriving  
ACFs from  
measurements is  
proposed by  
introducing the  
Prolate Spheroidal  
Wave Functions

(PSWF). PSWF can be  
used in two ways:

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spheroidal  
fitting the measured  
response itself or  
fitting the sample ACF  
from the  
measurements.

Tools For

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Prolate Spheroidal  
Wave Functions  
(PSWFs) are the  
eigenfunctions of the  
bandlimited operator  
in one dimension. As

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such, they play an important role in signal processing, Fourier analysis, and approximation theory. While historically the numerical evaluation of PSWFs presented serious difficulties, the developments of the last fifteen years or so made them as computationally tractable as any other

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class of special functions. As a result, PSWFs have been becoming a popular computational tool.

The present book serves as a complete, self-contained resource for both theory and computation. It will be of interest to a wide range of scientists and



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engineers, from  
mathematicians  
interested in PSWFs  
as an analytical tool  
to electrical engineers  
designing filters and  
antennas.

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Approximation

Applied

This volume  
facilitates the use and  
calculation of  
spheroidal wave

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functions with a  
detailed and unified  
account of the  
properties of these  
functions and helpful  
tables.

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Approximation

Applied

The flagship  
monograph

addressing the

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spheroidal wave

function and its

pertinence to

computational

electromagnetics

Spheroidal Wave

Functions in

Bandlimited

Theory presents in

detail the theory of

spheroidal wave

functions,

its applications to the

analysis of

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electromagnetic fields  
in various spheroidal  
structures, and  
provides

comprehensive

programming

codes for those

computations. The

topics covered in this

monograph include:

Spheroidal

coordinates and wave

functions Dyadic

Green's functions in

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spheroidal systems

EM scattering by a  
conducting spheroid

EM scattering by a  
coated dielectric

spheroid Spheroid  
antennas SAR

distributions in a  
spheroidal head

model The

programming codes  
and their applications

are provided

online and are written

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in Mathematica 3.0 or 4.0. Readers can also develop their own codes according to the theory or routine described in the book to find subsequent solutions of complicated structures. Spheroidal Wave Functions in Electromagnetic Theory is a fundamental

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(PSWFs) are the eigenfunctions of the bandlimited operator in one dimension. As such, they play an important role in signal processing, Fourier analysis, and approximation theory. While historically the numerical evaluation of PSWFs presented serious difficulties, the developments of



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computation. It will be of interest to a wide range of scientists and engineers, from mathematicians interested in PSWFs as an analytical tool to electrical engineers designing filters and antennas.

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