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~~Scalar Wave~~

~~Equation Accuracy~~

~~(Numerical~~

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Modified equation,
Artificial viscosity,
Numerical diffusion

Numerical
dissipation in
advection equation

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dispersion model

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numerical problem

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Colourful world

chapter 11 : Refraction, Dispersion of

light by a prism, Dr.

H C Verma Talking on Dispersion of

Light to class 10th students. ~~6 An~~

~~introduction to the dispersion of~~

~~propagating waves~~

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Atmospheric Of
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L24.6 A Numerical
Example - Part I

~~Deriving a scheme
with both numerical
dissipation and~~

~~dispersion Problem
on Chimney Height
of Natural Draft~~

~~Boiler in Hindi |
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~~MSU. Lecture 3c~~

~~-- Wave Dispersion~~

~~\u0026 Polarization~~

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~~Light All about~~

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~~White Light\" by :~~

~~Hesham Allam~~

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~~dispersion in~~

~~advection equation~~

~~Writing a MATLAB~~

~~program to solve~~

~~the advection~~

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Numerical Methods

for Partial

Differential

Equations Lecture

1: Convection

Diffusion Equation

Electricity Class 10

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Dispersion Of

In applied
computational
mathematics,

numerical

dispersion is a

difficulty with

computer

simulations of

continua (such as

fluids) wherein the

simulated medium

exhibits a higher

dispersivity than

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the true medium.

This phenomenon can be particularly egregious when the system should not be dispersive at all, for example a fluid acquiring some spurious dispersion in a numerical model.

Numerical
dispersion -

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Dispersion Of Numerical

Electromagnetic
Particle In
dispersion is a special class of truncation error that appears when solving the diffusion-advection equation by finite differences. The phenomenon adds an artificial dispersion to the solution so that in

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effect we are
solving Where
numerical
dispersion is small
relative to physical
dispersion, this may
not be a huge deal.

Numerical
dispersion - The
Geochemist's
Workbench
Numerical solutions
to the 1D dispersion

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Dispersion Of
obtained for
Electromagnetic
parameters of
Particle In
interest. We

investigate how the
finite grid instability
arises from the
interaction of the
numerical modes
admitted in the
system and their
aliases. The most
significant
interaction is due

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critically to the
correct placement
of the operators in
the dispersion
relation.

On the Numerical
Dispersion of the
Electromagnetic ...
Analysis of
numerical
dissipation and
dispersion Modi fi ed
equation method:

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the exact solution of the discretized equations satisfies a PDE which is generally different from the one to be solved Original PDE Modified equation

$$A_{n+1} = B_n u$$
$$t + Lu = 0 \quad u$$
$$t + Lu = X \quad p=1$$
$$2p \quad 2pu \quad x^{2p} +$$
$$X \quad p=1 \quad 2p+1$$
$$2p+1u \quad x^{2p+1}$$

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Dispersion Of

Analysis of
numerical
dissipation and

dispersion

The dispersive and
dissipative

properties of

numerical methods

are important for
numerical modeling.

We have evaluated

a numerical dispersi

on-dissipation

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analysis for two
discontinuous
Galerkin methods
(DGMs) — the flux-
based DGM
(FDGM) and the
interior penalty
DGM (IP DGM) for
scalar wave
equation.

A numerical dispers
ion-dissipation
analysis of ...

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Dispersion is one of the fate processes of oil spill. This research has been carried out on the numerical simulation of the dispersion of crude oil using the model obtained from the work of Hamam (1987). The model was solved with the explicit, implicit and

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Crank-Nicolson
methods of solution
of partial
differentiation
equations with the
aid of MATLAB,
and the
concentration of the
crude oil ...

Numerical
Simulation of Crude
Oil Dispersion in
Water ...

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The maximum and minimum of the numerical dispersion and dissipation errors can be clearly identified from the figures. In addition, the super-convergence is also illustrated. It can also be observed from the figures that the

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quadrilateral grids
introduce less
numerical
dispersion and
dissipation than
triangular grids.

Dispersion-
dissipation analysis
of triangular
numerical ...

The numerical
results from CFD
software Fluent

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Disposition of
Electromagnetic
Particle In

adopted to predict
particle transport
and distribution in
ventilated rooms
agree well with
associated
experimental data .
Using CFD to
evaluate the
performance of
ventilation systems,
our study aims to
propose a strategy
of preventing the

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Dispersion Of
airborne
Electromagnetic
contaminants from
Particle In
the isolation room

...

Numerical study on
the dispersion of
airborne
contaminants ...
(FDM) is the most
common used in
numerical modeling,
yet the numerical

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Dispersion relation
and stability
condition remain to
be solved for the di
usive-viscous wave
equation in FDM. In
this paper, we
perform an analysis
for the numerical
dispersion and Von
Neumann stability
criteria of the di
usive-viscous wave
equation for second

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Dispersion FD scheme.

Electromagnetic
Particle In
STABILITY AND
NUMERICAL
DISPERSION
ANALYSIS OF
FINITE ...

The thermal effect
on the flow and
dispersion of
pollutants emitted
from a rooftop
stack is
investigated by

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means of CFD Of
(computational fluid
dynamics) models
with wind tunnel
experimental
validations. The
leeward wall and its
nearby ground are
heated
simultaneously to
mimic solar
radiation.

Seventeen Ri
(Richardson

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number) cases with
four inflow wind
speeds (1, 3, 6, and
9 m/s) and five ...

Numerical
investigation of the
thermal effect on
flow and ...

A numerical
dispersion relation
was derived
theoretically that
confirms that the

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coarser the grid the
more the gravity
wave is retarded.

Results from
numerical
experiments of
gravity waves on
grids with different
resolution agree
well with the
theoretical
numerical
dispersion relation.

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Numerical Of
Dispersion of
Gravity Waves |
Monthly Weather ...

Standard Deviation :

The standard deviation is a statistic that measures the dispersion of a dataset relative to its mean and is calculated as the square root of the

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variance. The
standard...
Electromagnetic

Particle In
Measures Of
Dispersion.

Measure of
Dispersion | by ...

By analysis of the
amplification
factors, the
numerical

dispersion relation
is rederived and
verified with

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Dispersion Of
experiments, with
good agreement.

The inconsistency
of the numerical
dispersion relation
is resolved. It is
shown that ADI-
FDTD has some
fundamental limits.

Analysis and
numerical
experiments on the

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Dispersion Of

Numerical
Electromagnetic

dispersion refers to
Particle In
a mismatch in phase

between the
numerical and the
exact solution. Both
phenomena are
properties of the
numerical scheme
employed,
regardless of Finite
Volume or...

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What is difference
between numerical
diffusion and ...

Numerical
dispersion relations
for equatorial wave
modes are
computed two
ways: from
equations for the
pressure, p , and for
the meridional
velocity, v . These
are compared with

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both the continuous
and the analytic
finite difference
dispersion relations
for the u-v-p
system of equations
on an Arakawa C-
grid derived by D.
W. Moore (personal
communication,
1990).

On the numerical
dispersion relation

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Dispersion of equatorial waves

... Electromagnetic

The numerical dispersion of a time-harmonic plane wave propagating through an infinite, two-dimensional, vector finite element mesh composed of uniform quadrilateral elements is

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Investigation Of
effects on the
numerical
dispersion of the
propagation
direction of the
wave, the order of
the polynomials
used for the basis
functions, and the ...

An investigation of
numerical
dispersion in the

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vector ...

Abstract. Abstract

This study employs

a numerical model

to investigate the

dispersion

characteristics of

human exhaled

droplets in

ventilation rooms.

The numerical

model is validated

by two different

experiments prior

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Dispersion Of
Electromagnetic
Particle In

to the application
for the studied
cases. Some typical
questions on
studying dispersion
of human exhaled
droplets indoors are
reviewed and
numerical study
using the
normalized
evaporation time
and normalized
gravitational

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Sedimentation Of
was performed to
obtain the answers.
Particle In

Some questions on
dispersion of human
exhaled droplets in

...

OSTI.GOV Journal
Article: On the
numerical
dispersion of
electromagnetic
particle-in-cell

Get Free On The Numerical code: Finite grid instability Electromagnetic Particle In

Finite difference approximation, in addition to Taylor truncation errors, introduces numerical dispersion-and-dissipation

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Dispersion Of
numerical solutions
of partial
differential

equations. We
analyze a class of
finite difference
schemes which are
designed to
minimize these
errors (at the
expense of formal
order of accuracy),
and we give a

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quantitative
analysis of the
interplay between
the Taylor

truncation errors
and the dispersion-
and-dissipation
errors when
refining meshes. In
particular, we study
the numerical
dispersion relation
of the fully
discretized non-

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dispersion transport
equation in one and
multi-dimensions.

We derive the
numerical phase
error and the L^2
-norm error of the
solution in terms of
the dispersion-and-
dissipation error.

Based on our
analysis, we
investigate the
error dynamics

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Dispersion Of
among various
optimized compact
schemes and the
Electromagnetic
Particle In
unoptimized higher-
order generalized
Pad\`e compact
schemes, taking
into account four
important factors,
namely, (i) error
tolerance, (ii)
computer memory
capacity, (iii)
resolvable

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wavenumber, and
(iv) CPU/GPU time.
The dynamics shed
light on the
principles of
designing suitable
optimized compact
schemes for a given
problem. Using
these principles as
guidelines, we then
propose an
optimized scheme
that prescribes the

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Dispersion Of
dispersion relation
before finding the
corresponding

discretization. This
approach produces
smaller numerical di-
spersion-and-
dissipation errors
for linear and
nonlinear problems,
compared with the
unoptimized higher-
order compact

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Schemes and other optimized schemes developed in the literature. Finally, we discuss the difficulty of developing an optimized composite boundary scheme for problems with non-trivial boundary conditions. We propose a

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Composite scheme
that introduces a
buffer zone to
connect an

optimized interior
scheme and an
unoptimized
boundary scheme.

Our numerical
experiments show
that this strategy
produces small
L2-norm error
when a wave packet

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Dispersion Of
passes through the
non-periodic
Electromagnetic
boundary.
Particle In

Finite-difference
acoustic-wave
modeling and
reverse-time depth
migration based on
the full wave

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Dispersion Of
Equation are
general approaches
that can take into
account arbitrary
variations in
velocity and
density, and can
handle turning
waves well.

However,
conventional finite-
difference methods
for solving the
acoustic wave

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Dispersion suffer
from numerical
dispersion when too
few samples per
wavelength are
used. Here, we
present two flux-
corrected transport
(FCT) algorithms,
one based the
second-order
equation and the
other based on first-
order wave

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Equations derived
from the second-
order one.

Combining the FCT
technique with
conventional finite-
difference modeling
or reverse-time
wave extrapolation
can ensure finite-
difference solutions
without numerical
dispersion even for
shock waves and

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impulsive sources.

Computed two-dimensional migration images

show accurate positioning of reflectors with greater than 90-degree dip.

Moreover, application to real data shows no indication of numerical

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Dispersion. The
FCT correction,
which can be
applied to finite-
difference
approximations of
any order in space
and time, is an
efficient alternative
to use of
approximations of
increasing order.

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The common
"folklore" that
Eulerian-Lagrangian
methods performs
better (are more
accurate) with large
Courant numbers
(large time steps)
than with small

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Courant numbers, due to numerical dispersion in the latter case, is explained theoretically. A formulation that does not suffer from large numerical dispersion for any Courant number is outlined.

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Finite Difference
(FD) schemes have
been used widely in
computing

approximations for
partial differential
equations for wave
propagation, as they
are simple, flexible
and robust.

However, even for
stable and accurate
schemes, waves in
the numerical

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Schemes can propagate at different wave speeds than in the true medium.

This phenomenon is called numerical dispersion error.

Traditionally, FD schemes are designed by forcing accuracy conditions, and in spite of the advantages

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mentioned above,
such schemes
suffer from
numerical

dispersion errors.

Traditionally, two
ways have been
used for the
purpose of reducing
dispersion error:
increasing the
sampling rate and
using higher order
accuracy. More

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recently,
Finkelstein and
Kastner (2007,
2008) propose a
unified methodology
for deriving new
schemes that can
accommodate
arbitrary
requirements for
reduced phase or
group velocity
dispersion errors,
defined over any

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Dispersion Of
region in the
frequency domain.
Such schemes are
Particle In
based on enforcing
exact phase or
group velocity at
certain preset
wavenumbers. This
method has been
shown to reduce
dispersion errors at
large wavenumbers.
In this dissertation,
we study the

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Construction and
behaviors of FD
schemes designed
to have reduced
numerical
dispersion error.

We prove that the
system of equations
to select the
coefficients in a
centered FD
scheme for second
order wave
equations with

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Dispersion Of
accuracy and exact
phase velocity at
preset

wavenumbers can
always be solved.
Furthermore, from
the existence of
such schemes, we
can show that
schemes which
reduce the
dispersion error
uniformly in an

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Interval of the
frequency domain
can be constructed
from a Remez
algorithm. In these
new schemes we
propose, we can
also specify
wavenumbers
where the exact
phase or group
dispersion relation
can be satisfied.
For an incoming

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signal consisting of waves of different wavenumbers, our schemes can give more accurate wave propagation speeds. Furthermore, when we apply our schemes in two dimensional media, we can obtain schemes that give small dispersion error at all

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propagation angles.
Electromagnetic
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