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law, an equation which is strongly dissipative in L^1 thanks to shock wave formation. Such a dissipating property is generally lost when considering hyperbolic systems of conservation

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laws, or simply
inhomogeneous scalar balance
laws involving ...

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development of possibly high
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This book explores the ways that elaborate flux functions can be constructed, mainly in a one-dimensional context for hyperbolic systems admitting shock-type solutions and also for kinetic equations

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in the discrete-ordinate
approximation.

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drawn for years onto the
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homogeneous conservation
law, an equation which is
strongly dissipative in L^1
thanks to shock wave
formation. Such a
dissipation property is
generally lost when
considering hyperbolic

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Approximations of conservation
laws, or simply
inhomogeneous scalar balance
laws involving accretive or
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terms, because of complex
wave interactions. An
overall weaker dissipation

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can reveal intrinsic
numerical weaknesses through
specific nonlinear
mechanisms: Hugoniot curves
being deformed by local
averaging steps in Godunov-
type schemes, low-order
errors propagating along

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expanding characteristics
after having hit a
discontinuity, exponential
amplification of truncation
errors in the presence of
accretive source terms...

This book aims at presenting
rigorous derivations of

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different, sometimes called well-balanced, numerical schemes which succeed in reconciling high accuracy with a stronger robustness even in the aforementioned accretive contexts. It is divided into two parts: one

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dealing with hyperbolic
systems of balance laws,
such as arising from quasi-
one dimensional nozzle flow
computations, multi-phase WKB
approximation of linear
Schrödinger equations, or
gravitational Navier-Stokes

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systems. Stability results
for viscosity solutions of
onedimensional balance laws
are sketched. The other
being entirely devoted to
the treatment of weakly
nonlinear kinetic equations
in the discrete ordinate

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approximations, such as the
ones of radiative transfer,
chemotaxis dynamics,
semiconductor conduction,
spray dynamics or linearized
Boltzmann models.

“Caseology” is one of the
main techniques used in

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these derivations. Lagrangian techniques for filtration equations are evoked too. Two-dimensional methods are studied in the context of non-degenerate semiconductor models.

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This book is a liber amicorum to Professor Sergei Konstantinovich Godunov and gathers contributions by renowned scientists in honor of his 90th birthday. The contributions address those fields that Professor

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Godunov is most famous for:
differential and difference
equations, partial
differential equations,
preserving of mathematical
physics, mathematical
modeling, difference
schemes, advanced

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Approximations methods for
hyperbolic equations,
computational methods for
linear algebra, and
mathematical problems in
continuum mechanics.

This volume gathers

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contributions reflecting
topics presented during an
INDAM workshop held in Rome
in May 2016. The event
brought together many
prominent researchers in
both Mathematical Analysis
and Numerical Computing, the

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goal being to promote
interdisciplinary
collaborations. Accordingly,
the following thematic areas
were developed: 1.
Lagrangian discretizations
and wavefront tracking for
synchronization models; 2.

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Astrophysics computations
and post-Newtonian
approximations; 3.

Hyperbolic balance laws and
corrugated isometric
embeddings; 4. "Caseology"

techniques for kinetic
equations; 5. Tentative

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Approximations of compressible
non-standard solutions; 6.
Entropy dissipation,
convergence rates and
inverse design issues. Most
of the articles are
presented in a self-
contained manner; some

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highlight new achievements, while others offer snapshots of the “state of the art” in certain fields. The book offers a unique resource, both for young researchers looking to quickly enter a given area of application,

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and for more experienced
ones seeking comprehensive
overviews and extensive
bibliographic references.

Preserving Sema Simai

This monograph presents, in
an attractive and self-
contained form, techniques

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based on the L_1 stability
theory derived at the end of
the 1990s by A. Bressan,
T.-P. Liu and T. Yang that
yield original Gamma Simai
estimates for so-called well-
balanced numerical schemes
solving 1D hyperbolic

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Approximations of balance laws. Rigorous error estimates are presented for both scalar balance laws and a position-dependent relaxation system, in inertial approximation. Such estimates shed light on why those algorithms based

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on source terms handled like
"local scatterers" can
outperform other, more
standard, numerical schemes.
Two-dimensional Riemann
problems for the linear wave
equation are also solved,
with discussion of the

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Approximations relating to
the treatment of 2D balance
laws. All of the material
provided in this book is
highly relevant for the
understanding of well-
balanced schemes and will
contribute to future

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The proceedings of the 9th
conference on "Finite

Volumes for Complex Simai

Applications" (Bergen, June

2020) are structured in two

volumes. The first volume

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collects the focused invited papers, as well as the reviewed contributions from internationally leading researchers in the field of analysis of finite volume and related methods. Topics covered include convergence

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and stability analysis, as well as investigations of these methods from the point of view of compatibility with physical principles. Altogether, a rather comprehensive overview is given on the state of the

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Advantages For a number of
applications. These include
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magnetohydrodynamics,

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structural analysis, nuclear
physics, semiconductor
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theory, carbon capture
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utilization and storage,
geothermal energy and
further topics. The second
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volume covers reviewed
contributions reporting

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successful applications of
finite volume and related
methods in these fields. The
finite volume method in its
various forms is a space
discretization technique for
partial differential
equations based on the

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fundamental physical
principle of conservation.
Many finite volume methods
preserve further qualitative
or asymptotic properties,
including maximum
principles, dissipativity,
monotone decay of free

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energy, and asymptotic stability, making the finite volume methods compatible discretization methods, which preserve qualitative properties of continuous problems at the discrete level. This structural

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approach to the
discretization of partial
differential equations
becomes particularly
important for multiphysics
and multiscale applications.
The book is a valuable
resource for researchers,

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PhD and master's level
students in numerical
analysis, scientific
computing and related fields
such as partial differential
equations, as well as
engineers working in
numerical modeling and

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The first of two volumes,
this edited proceedings book
features research presented
at the XVI International
Conference on Hyperbolic
Problems held in Aachen,

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Germany in summer 2016. It focuses on the theoretical, applied, and computational aspects of hyperbolic partial differential equations (systems of hyperbolic conservation laws, wave equations, etc.)

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Approximations of mathematical models (PDEs of mixed type, kinetic equations, nonlocal or/and discrete models) found in the field of applied sciences.

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this edited proceedings book features research presented at the XVI International Conference on Hyperbolic Problems held in Aachen, Germany in summer 2016. It focuses on the theoretical, applied, and computational

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Aspects of hyperbolic balance
partial differential fit well
equations (systems of
hyperbolic conservation
laws, wave equations, etc.)
and of related mathematical
models (PDEs of mixed type,
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or/and discrete models)
found in the field of
applied sciences.

This monograph presents
cutting-edge research on
dispersive wave modelling,
and the numerical methods

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used to simulate the propagation and generation of long surface water waves. Including both an overview of existing dispersive models, as well as recent breakthroughs, the authors maintain an ideal balance

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between theory and
applications. From modelling
tsunami waves to smaller
scale coastal processes,
this book will be an
indispensable resource for
those looking to be brought
up-to-date in this active

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Approximations of scientific research.
Beginning with an
introduction to various
dispersive long wave models
on the flat space, the
authors establish a
foundation on which readers
can confidently approach

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more advanced mathematical
models and numerical
techniques. The first two
chapters of the book cover
modelling and numerical
simulation over globally
flat spaces, including
adaptive moving grid methods

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along with the operator
splitting approach, which
was historically proposed at
the Institute of
Computational Technologies
at Novosibirsk. Later
chapters build on this to
explore high-end

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mathematical modelling of
the fluid flow over deformed
and rotating spheres using
the operator splitting
approach. The appendices
that follow further
elaborate by providing
valuable insight into long

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Approximations of the balance
potential flow assumption,
and modified intermediate
weakly nonlinear weakly
dispersive equations.
Dispersive Shallow Water
Waves will be a valuable
resource for researchers

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studying theoretical or
applied oceanography,
nonlinear waves as well as
those more broadly
interested in free surface
flow dynamics.

This book focuses on the

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Interplay between Eulerian and Lagrangian conservation laws for systems that admit physical motivation and originate from continuum mechanics. Ultimately, it highlights what is specific to and beneficial in the

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Lagrangian approach and its numerical methods. The two first chapters present a selection of well-known features of conservation laws and prepare readers for the subsequent chapters, which are dedicated to the

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analysis and discretization of Lagrangian systems. The text is at the frontier of applied mathematics and scientific computing and appeals to students and researchers interested in Lagrangian-based

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computational fluid dynamics. It also serves as an introduction to the recent corner-based Lagrangian finite volume techniques.

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