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In mathematics, a symplectic integrator is a numerical integration scheme for Hamiltonian systems. Symplectic integrators form the

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subclass of geometric integrators which, by definition, are canonical transformations. They are widely used in nonlinear dynamics, molecular dynamics, discrete element methods, accelerator physics, plasma physics, quantum physics, and celestial mechanics.

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~~Symplectic integrator - Wikipedia~~

This book deals with methods for solving a special nonsymmetric eigenvalue problem; the symplectic eigenvalue problem. The symplectic eigenvalue problem is helpful, e.g., in analyzing a number of different

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questions that arise in linear control theory for discrete-time systems.

~~Symplectic Methods for the Symplectic Eigenproblem ...~~

There are three simplest symplectic methods that are used in simulations , , , and named the symplectic Euler

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methods, implicit midpoint rule and
Störmer–Verlet method in turn, which
read (1.2) $p_{n+1} = p_n - h H_q(p_{n+1}, q_n)$, $q_{n+1} = q_n + h H_p(p_{n+1}, q_n)$, or $p_{n+1} = p_n - h H_q(p_n, q_{n+1})$, $q_{n+1} = q_n + h H_p(p_n, q_{n+1})$, (1.3) $p_{n+1} = p_n - h H_q(p_n, p_n + p_{n+1})$, $q_{n+1} = q_n + h H_p(p_n, p_n + p_{n+1})$

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$H(p, q) = \frac{1}{2} p^2 + \frac{1}{2} q^2$,
(1.4) $p_{n+1}^2 \dots$

~~A general symplectic scheme with
three free parameters and ...~~

This is crucial for the developments of
the symplectic methods. A
generalization of the above theory and

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method to the canonical Hamiltonian
eqs. in infinite dimensions is also
given. The multi-level schemes,
including the leapfrog one, are studied
from the symplectic point of view.

~~The symplectic methods for the
computation of hamiltonian ...~~

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We will apply the symplectic method S1 to with Hamiltonian functions , or , and the non-symplectic scheme S2 to . In the following, we will call $err(A)(t) = A(t) - A(0)$ for any variable A. Initial data are the usual 1-soliton solution which are integrated without problems by many numerical methods.

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~~Symplectic methods for the
Ablowitz-Ladik discrete ...~~

1 Basic symplectic integration schemes. The most simple symplectic integrators are motivated by the theory of generating functions for symplectic transformations (see Lecture 1). We

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consider the Hamil-tonian system in
the variables $y = (p, q)$, $p' = -q'$.
 $q' = \partial H(p, q) / \partial p$ or equivalently
 $y' = J^{-1} \nabla H(y)$.

~~Lecture 2: Symplectic integrators~~
~~UNIGE~~

A symplectic bilinear form is a

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mapping $\omega: V \times V \rightarrow F$ that is bilinear:
linear in each argument separately,
alternating: $\omega(v, v) = 0$ holds for all $v \in V$,
and nondegenerate: $\omega(v, u) = 0$ for all $u \in V$
implies that v is zero. If the underlying
field has characteristic not 2,
alternation is equivalent to skew-
symmetry. If the characteristic is 2, the

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skew-symmetry is implied by, but does not imply alternation. In this case every symplectic form is a symmetric form, but not vice versa. Working in a ...

~~Symplectic vector space - Wikipedia~~

In this paper, we propose a multi-

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Symplectic splitting method to solve the coupled nonlinear Schrödinger (CNLS) equation by using the idea of splitting the multi-symplectic partial differential equation (PDE). Numerical experiments show that the proposed method can simulate the propagation and collision of solitons well.

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~~Multi-symplectic splitting method for
the coupled ...~~

Over the last number of years powerful new methods in analysis and topology have led to the development of the modern global theory of symplectic topology, including several striking and

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important results. The first edition of Introduction to Symplectic Topology was published in 1995. The book was the first comprehensive introduction to the ...

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problem is helpful, e.g., in analyzing a number of different questions that arise in linear control theory for discrete-time. Covid SafetyHoliday ShippingMembershipEducatorsGift CardsStores & EventsHelp. AllBookse booksNOOKTextbooksNewsstandTee ns & YAKidsToysGames &

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symplectic methods are key
ingredients in the study of dynamical
systems, differential equations,

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algebraic geometry, topology,
mathematical physics and
representations of Lie groups. This
book is a true introduction to
symplectic geometry, assuming only a
general

~~An Introduction To Symplectic~~

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In the sciences, situations where dissipation is not significant may invariably be modelled by Hamiltonian systems of ordinary, or partial, differential equations. Symplectic integrators are numerical methods specifically aimed at advancing in time

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the solution of Hamiltonian systems.
Roughly speaking, 'symplecticness'
is a characteristic property possessed
by the solutions of Hamiltonian
problems.

~~Symplectic integrators for Hamiltonian
problems: an ...~~

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Most modern integrational algorithms used in Solar system dynamics are symplectic. The symplectic algorithms split the Hamiltonian into separate efficiently solvable parts, and interleave the solutions of these parts to approximate the solution of the full problem.

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~~Symplectic test particle encounters: a
comparison of methods~~

In this paper, we present an approach based on the symplectic method and the linear complementary method to solve multibody dynamic problems with impact contact. As the symplectic method has good energy conservation

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and no numerical damping, the proposed approach is expected to inherit these properties for solving nonsmooth problems of multibody dynamic systems.

~~A nonsmooth contact dynamic algorithm based on the ...~~

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In this work, the multi-symplectic discretization method is used to investigate the strong nonlinear Gaussian solitary wave of the logarithmic-KdV equation numerically. Gaussian solitary waves are special solitons which have bell-shaped waveforms.

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Symplectic geometry is very useful for clearly and concisely formulating problems in classical physics and also for understanding the link between classical problems and their quantum

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counterparts. It is thus a subject of interest to both mathematicians and physicists, though they have approached the subject from different view points. This is the first book that attempts to reconcile these ...

~~Symplectic Techniques in Physics~~

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