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~~Dynamics and Symplectic Geometry—P.  
Salomao (USP) Symplectic Methods For  
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In mathematics, a symplectic integrator is a numerical integration scheme for Hamiltonian systems. Symplectic integrators form the subclass of geometric integrators which, by definition, are

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canonical transformations. They are widely used in nonlinear dynamics, molecular dynamics, discrete element methods, accelerator physics, plasma physics, quantum physics, and celestial mechanics.

~~Symplectic integrator~~ — Wikipedia

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

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

There are three simplest symplectic methods that are used in simulations , , , , and named the symplectic Euler methods, implicit midpoint rule and Störmer–Verlet method in turn, which read (1.2)  $p_{n+1} =$

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$p_n \pm h H q(p_n + 1, q_n), q_{n+1} = q_n + h$   
 $H p(p_n + 1, q_n),$  or  $p_{n+1} = p_n \pm h H q$   
 $(p_n, q_{n+1}), q_{n+1} = q_n + h H p(p_n, q$   
 $n + 1),$  (1.3)  $p_{n+1} = p_n \pm h H q p_n + p_n$   
 $+ 1^2, q_n + q_{n+1}^2, q_{n+1} = q_n + h H$   
 $p p_n + p_{n+1}^2, q_n + q_{n+1}^2,$  (1.4)  $p_n$   
 $+ 1^2 \dots$

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~~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 method to the canonical Hamiltonian eqs. in infinite dimensions is also given. The multi-level schemes, including the leapfrog one, are

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studied from the symplectic point of view.

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

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  $\text{err}(A)(t) = A(t) \square$



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$A(0)$  for any variable  $A$ . Initial data are the usual 1-soliton solution which are integrated without problems by many numerical methods.

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

1 Basic symplectic integration schemes.

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The most simple symplectic integrators are motivated by the theory of generating functions for symplectic transformations (see Lecture 1). We consider the Hamiltonian system in the variables  $y = (p, q)$ ,  $p \in \mathbb{R}^n$ ,  $q \in \mathbb{R}^n$ .  $\dot{y} = -J^{-1} \nabla H(y)$  or equivalently  $y' = J^{-1} \nabla H(y)$ .

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~~Lecture 2: Symplectic integrators~~

~~UNIGE~~

A symplectic bilinear form is a 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  $v \in V$  implies that  $u$  is zero. If the underlying field has characteristic not 2,

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alternation is equivalent to skew-symmetry. If the characteristic is 2, the 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~~

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In this paper, we propose a multi-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

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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,

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including several striking and 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

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number of different questions that arise in  
linear control theory for discrete-time.

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symplectic methods are key ingredients in the study of dynamical systems, differential equations, algebraic geometry, topology, mathematical physics and

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representations of Lie groups. This book is  
a true introduction to symplectic  
geometry, assuming only a general

~~An Introduction To Symplectic Geometry |~~  
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In the sciences, situations where  
dissipation is not significant may

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invariably be modelled by Hamiltonian systems of ordinary, or partial, differential equations. Symplectic integrators are numerical methods specifically aimed at advancing in time the solution of Hamiltonian systems. Roughly speaking, "symplecticness" is a characteristic property possessed by the solutions of

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

Most modern integrational algorithms used in solar system dynamics are symplectic. The symplectic algorithms split the Hamiltonian into separate efficiently

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solvable parts, and interleave the solutions of these parts to approximate the solution of the full problem.

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

In this paper, we present an approach based on the symplectic method and the

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linear complementary method to solve  
multibody dynamic problems with impact  
contact. As the symplectic method has  
good energy conservation and no  
numerical damping, the proposed  
approach is expected to inherit these  
properties for solving nonsmooth  
problems of multibody dynamic systems.



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

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

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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

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Understanding the link between classical problems and their quantum 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 ...

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