

Wave Packets And Their Bifurcations In Geophysical Fluid Dynamics Applied Mathematical Sciences

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Wave Packets And Their Bifurcations

The investigation of wave packets and their bi- furcations is very interesting, and useful theoretically and in practice, not only in geophysical fluid dynamics, which is the field to which the theory is being applied here, but also in other fields in mathematics and the natural sciences.

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Download Wave Packets and Their Bifurcations in Geophysical Fluid Dynamics (Applied Mathematical Sciences) pdf books Graduate students and researchers in fields such as applied mathematics, geophysical fluid dynamics, atmospheric sciences and physical oceanography should find this text a useful reference. The book can also be used as a supplement in courses such as wave theory, bifurcation theory, advanced dynamical meteorology, advanced dynamical oceanography and geophysical fluid dynamics.

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Yang H. Wave Packets and Their Bifurcations in Geophysical ...

In physics, a wave packet is a short "burst" or "envelope" of localized wave action that travels as a unit. A wave packet can be analyzed into, or can be synthesized from, an infinite set of component sinusoidal waves of different wavenumbers, with phases and amplitudes such that they interfere constructively only over a small region of space, and destructively elsewhere. Each component wave function, and hence the wave packet, are solutions of a wave equation. Depending on the wave equation, th

Wave packet - Wikipedia

Abstract. In this chapter, we discuss another aspect of the wave packet theory, wave packet propagation. Earlier chapters mainly focused on the structure and structural change of wave packets, without explicit discussions of the propagation property of wave packets, which is possible only when the structure independence theorem discussed in Chapter 2 holds.

Wave Packets and Teleconnections | SpringerLink

1 Wave packets The function $g(x) = e^{-1/2 x^2/\sigma^2} = (1)$ is called a Gaussian. For a Gaussian, note that $g(\pm\sigma) = 1/e \approx 0.37$, so when $x = \pm\sigma$, the Gaussian has decreased to about 0.37 of its value at the top. Alternatively, the Gaussian is at half its maximal value at $x = \pm 1.1\sigma$. Either way, σ indicates the width of the ...

Matthew Schwartz Lecture 11: Wavepackets and dispersion

[8] H. Yang, Wave Packets and their Bifurcations in Geophysical Fluid Dynamics, Springer Verlag, (1990). [9] P. Yu, Explicit vibration solutions of a cable under complicated loads, Journal of Applied Mechanics, Vol. 64, No. 4 (1997) 957-964.

Wave Packet as a Model of Localised Disturbances ...

Book Review: Wave packets and their bifurcations in geophysical fluid dynamics. Huijin Yang, 247 pp, 1991. Springer, New York £31.00 Haynes, Peter; Abstract. Publication: Journal of Atmospheric and Terrestrial Physics. Pub Date: 1996 DOI: 10.1016/S0021-9169(96)90055-0 ...

Book Review: Wave packets and their bifurcations in ...

The wave packet evolution follows from negative l to positive l as time increases. When a wave packet is tilted westward (l is negative), it propagates downward. When a wave packet is tilted eastward (l is positive), it propagates upward. For a given wave packet with wavenumber, l s , the deepest ocean depth it can reach is determined by

Evolution of Long Planetary Wave Packets in a Continuously ...

internal wave packets. The observations of Alford and Pinkel (2000) show that overturning in the thermocline is often associated with the passage of an internal wave packet. We hope to model numerically and theoretically the evolution of such packets and their interaction with the ambient field.

Stratified Flow, Wave Packet Reflection and Topographic ...

Abstract Based on previous theory, which was made by using the Rossby wave-packet approximation and the WKB method, the evolution of a single geostrophic synoptic disturbance system has been furthe...

Bifurcation Properties of the Evolution of a Rossby Wave ...

The evolution of a Rossby wave packet could exhibit the supercritical and subcritical primary bifurcations and the reverse supercritical and subcritical primary bifurcations accordingly, as the topography parameter varies. The secondary bifurcation, however, is the transcritical bifurcation.

Secondary Bifurcation of the Evolution of a Rossby Wave ...

laws that govern the behavior of vortices and waves and their interactions. OBJECTIVES In our internal-wave project, we are using numerical simulations to study the dynamical evolution of internal wave packets. We plan to study in detail the process of reflection of a packet from regions of weak density gradient.

Stratified Flow, Wave Packet Reflection and Topographic ...

The wave packet method, one form of the WKB technique, recently has been employed to investigate the evolution of long planetary wave packets in relation to the complex climate variability in the ...

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