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# A Numerical Analysis Of Chaos In The Double Pendulum

[3] Wolf A, Swift JB, Swinney HL, Vastano JA. Determining Lyapunov Exponents From A Time Series. Physica D 1985;16:285 315. Fig. 8. The Largest Lyapunov Exponents For The System. The Regular Behaviour Of The Two first Cases,  $E = E \cdot 1$  And  $E \cdot 1$ 

= E 2, Makes The Thin Solid Line, And The Dashed Line, Respectively, Almost Coincide. May 2th, 2024

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Where V Is The Kinetic Energy And V Is Potential Energy Of The System. The Function Š Is The Rayleigh Dissipation Function, Whereas  $\langle \text{[is The Generalised External Force Applied To The System. The Value Of <math>\langle \text{[can Be Expressed As Follows: } \langle \text{[= Zk" EC" E^[" + ZŽ" E'" E^{\infty} [", (2.15) Feb 2th, 2024]} \rangle$ 

### Chaotic Motion Of A Double Pendulum - Mbeckler.org

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Di Erent Parts Of The Boundary Have Approxi-mately The Same Fractal Dimensions But The Region With. 3 FIG. 2: Outcomes For The Double Pendulum. The Initial Angles Of The Two Rods 1 And 2 Range From \*to \*. The Color Of Each Pix Jun 2th, 2024

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1j Be The Location Of The Center Of Mass Of Pendulum 1. Let R 1 Be The Vector From Pivot 1 To The Center Of Mass Of Pendulum 1, With Length R 1. Let 1 Be The Angle At Pivot 1 Between R 1 And The Downward Vertical Position. Let L 1 Be The Vector From Pivot 1 To Pivot 2, With Length L 1. Let Apr 2th, 2024

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