





**Scanned with CamScanner** 

10 discover two degree of rotational spectosa of deatomic molecules. translational. Those degree of A constraint does not always eliminate degraes of fraction (passicle moves in Ay advaduationly <= Holonomic constraints; Integrable of (4,4,1)=0 Plane in first alreading translation Strill have two degrees of the Eliminate ( Can't be used to eliminate degree of bordon 4 Non- holonomic franciscon held a parrell Placed on the deg & freedom Budish stores \_ One dime (they could involve velocines. which case not an clear intental you can integrate matter out to eliminate degrees of toadons you moleulu. more is the Charle under the action of earlies gravity = Conyou Predict 115 tuture motion VIII): ( Chank portale moving in space ) all sin hari sorral velousy => ellipse path escapes com hyperholie oxist Transl position or force => does not sufficient you need Enibal velocines and Posinon => Newton second as du earland. Piermoier Born animal position and velocities dy names is happeng phase space. Fig. 13. Com degroes of broadom. ( Stopus). This is the idea behind dynamics 5:0 A. The number of independent degrees of free down has to be determined B. The Coosesponding generalized velocities have also to be added on the Set of dy namecal Vastrables. Generalized co-ordinates al, as -- an To some the educations of motion, you need to know certain amount of entited data. The value of these generalized coordinates at an boolsal instant of time. In this sense Newsoncar meth dynamical