## 19.7 Angula Momentum and Talque bar Fixed Axis Rotation

cse knad that Tiget . I, a

this is a special case of Tien : d light

setup

o rigid body, rolating cound lived ariv pessing through point S

o trued can is the z-cais

- cuma 160011: @ = 0'(1) h = w.h

-0 " accelection: a = 0"(1) h = a 2 h

## Dune he light body

Dm; moving in circle of redicu (54

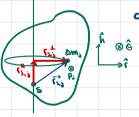
rij paihor of DMi

p, is targent to the circle

= Pi · Dmivi · Dmi (si w. ô

= ( (5, + + + + + + ) x Dm; (5, 0 0 0

- Dm; (5,1 wz h + Dm; (5,1 (1,1 0) c (- ?) > z-comparent of L doall S



(Ls,i) = Dm; ((si) 2002

Fu a conhabu mass dishibuhan

· Is Wz

For z-dilection

Example 19.6



## Allenchvely

The ring is made up of pairs of pathole masses.

Their agula mamerium dout 5 is