

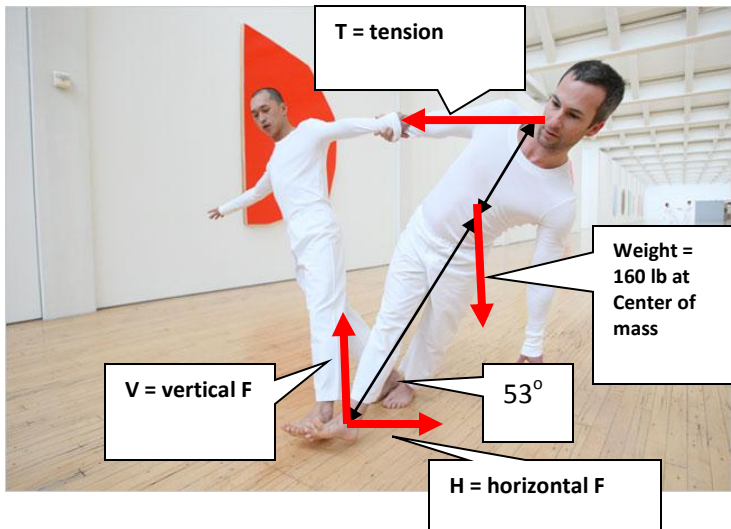
STATIC & ROTATIONAL EQUILIBRIUM Unit 15 Dr. John P. Cise

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By Gia Kourlas . Please send me an e-mail informing me of context in which you used this New York Times physics application. Thanks! Dr. Cise

DANCE REVIEW | TRISHA BROWN DANCE COMPANY

Dance and Art Play Off Each Other

BEACON, N.Y. — For the past two years the Merce Cunningham Dance Company graced the galleries of Dia: Beacon here, where the site-specific Beacon Events series was born. Now the torch has been passed to the Trisha Brown Dance Company, which, over the weekend, presented a sharply edited program of Ms. Brown's early works (pieces created between 1968 and 1975) that took audiences on a fast-paced trip through seven galleries. The residency will include appearances in February and May.



INTRODUCTION: Distance from foot on floor to center of mass is 3.5 ft. Distance from center of mass to shoulder is 2 ft. **QUESTION(S):** (a) Find vertical(V) and horizontal(H) forces at his foot? Also, find the tension(T) in his arm due to the dancer on the left pulling horizontally on his right arm? **HINT:** Set up three equations with the three unknowns. The three equations will come from the two concepts on static equilibrium: sum of Forces in X direction = 0 , sum of forces in the Y direction = 0. + one equation from the conditions for rotational equilibrium, sum of torques = 0. Good luck!

ANSWERS: T ≈ 76.73 lb , H ≈ 76.73 lb , V ≈ 160 lb

Trisha Brown Dance Company: Dai Jian, left, and Todd Lawrence Stone in "Leaning Duets," surrounded by "24 Colors - for Blinky," at Dia:Beacon. [More Photos »](#)

Multimedia



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Dance and Art

Ms. Brown began her journey in the galleries dedicated to Imi Knoebel's "24 Colors — for Blinky," a 1977 cycle of shaped paintings that anchor movement in a curiously satisfying way. For "Leaning Duets" (1970), two pairs of dancers — one male, the other female — joined hands and maintained balance by tilting away from the other while taking tentative steps. (The trick is that as their bodies wing out, the edges of their feet meet in the center.) A witty test of balance and trust, "Leaning Duets" represents Ms. Brown's scintillating experiments with capturing, losing and regaining gravity.