

Φ, 10/16

I'm glad to see that you & Ball  
are going to be elected. I gave 2  
votes to you & 2 to Ball & now  
I'm sorry that I didn't give Ball  
3. Let me know the result.

I've written to Darleton denying  
the validity of the calculation of  
the kinetic energy converted into  
heat in the collision of "two bodies"  
(W. & J.'s Dynamics p. 143)

Fancy Hooke's Law for  
a sphere!!! expressed in

$$\text{form } s = \frac{Pl}{E\delta}$$



There's no such result. The calculation  
of the strain produced by surface force  
on a body is a difficult problem.

Their result holds only for two lumps  
of cylindrical or prismatic bars colliding  
in the direction of their lengths — even if

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it holds for that case at all.

I think that in all Thermodynamics  
the characteristic = " of a body

$$Tdv + Pd\mu + QdT = 0.$$

Should be explicitly used in  
connection with Joule's = "

$$TdQ = \frac{dT}{dv} dv + \frac{dT}{d\mu} d\mu + \frac{dT}{dT} dT + p dv,$$

so that all diff. coeffs. are  
partial, & we are not bothered

about  $\frac{dT}{dv} + \left(\frac{dT}{d\mu}\right)$ . I've said to

to Darwin. Do you agree?

I find it simplest.

I'm slowly working on with light.

Some new results.

J. M. M.