

m d q

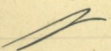
2/35

14.1.93

I am writing to assistants  
to mark Qy 6 (Motor Mechan)

30 + 10 instead of 20 + 20

Mermin I agree to a marking as reported  
by Whittaker. You will see that is better.



But I don't regard a failure of the good men.

That Sir W.T. should like a good dinner (if he does)  
doesn't matter <sup>2</sup>, but ~~that~~ <sup>don't let</sup> he has had a

great opportunity of raising British Science out  
of a low petty atmosphere by his  
science witnessing & conspicuous

pecuniary leaning. Sir's men are

all to rub shoulders with him & even to  
steak dipping of him occasionally.

Hence in spite of his extremely genius JCM + LaR  
will stand out clearer in the future I suspect conjecture.

over

2/35

no public Phys Soc dinner

to tonight in London without the presence of

London's greatest Physicists, which (as Prof

at R.I.) L.R. is.

but you dance in Suffolk semiprivate.

Look here

The gravitational stress in the center of earth surface is  $\frac{g^2}{8\pi\gamma}$

equals 600,000 atmospheres; more than enough for K

4 for all cohesion & tenacity. No tenacity can exceed  
the stress. Else stress may exceed the down, but can't

be less. Ergo steel in mid space may be

weaker than normal.

But it may be necessary to get

an invariable

a fearful danger away from matter

to make the application  
effed

felt. still it  $\propto \frac{1}{d^4}$ .

can stand  
Some steel constant 67 tons to sq inch

2/35

This equals  $67 \times 15 \frac{1}{4}$  atmospheres =  $10^4$  atmospheres  
=  $\frac{1}{60}$  the pressure stress at earth's surface  
hence the possible stress is equal to that of best steel  
at  $\sqrt[4]{60}$  earth radius distant from center

about ~~11000 miles~~ 7000 miles up.

[Very fine Quartziferous steel made the steel]

Sun's stress at surface is 10,000 greater than earth stress at earth

so here it is  $6 \times 10^9 \left( \frac{40,000}{92,000,000} \right)^4 = 3.73$  atmospheres

or hereabouts: quite negligible.

Stress increases.

moon's stress is greater than earth's.  $\frac{\text{tide force}}{\text{distance}}$

Of course total stress may be anything. The granular part is of considerable portion.

It is not the tenacity need vary, but it must suddenly fail in some part of space (on hypothesis of com)

4