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bodies fall sixteen feet a second, so at the distance
of the moon they should fall 3200 of sixteen feet,
or one-eighth of an inch, which as we have seen
is the observed amount.

§ IV.—THE ATTRACTION OF GRAVITATION.

188. In this way Newton discovered that the very
same force that draws a stone to the earth, called
the attraction of gravitation, keeps the moon in her
path round the earth. Nor did the discovery end
here, he showed that the earth, and all the other planets
were themselves kept in their orbits round the sun, and that
the same law of gravitation holds good with the most
distant star. All the apparently irregular motions
of the heavenly bodies have been reduced to law and
order by Newton, who showed that all the motions were
really regular, and therefore could be calculated before-
hand. He has enabled mankind not only to admire
the divine beauty and harmony of the universe in
which we dwell, but to make use of the motions of
the heavenly bodies for purposes of daily life.

THE END.