



_____ ,

1. « » (

), «

».

(

)

« » (« »),

« »

,

,



3.

·) (,
· ,
, (),
().



4.

«

»

: «

»,

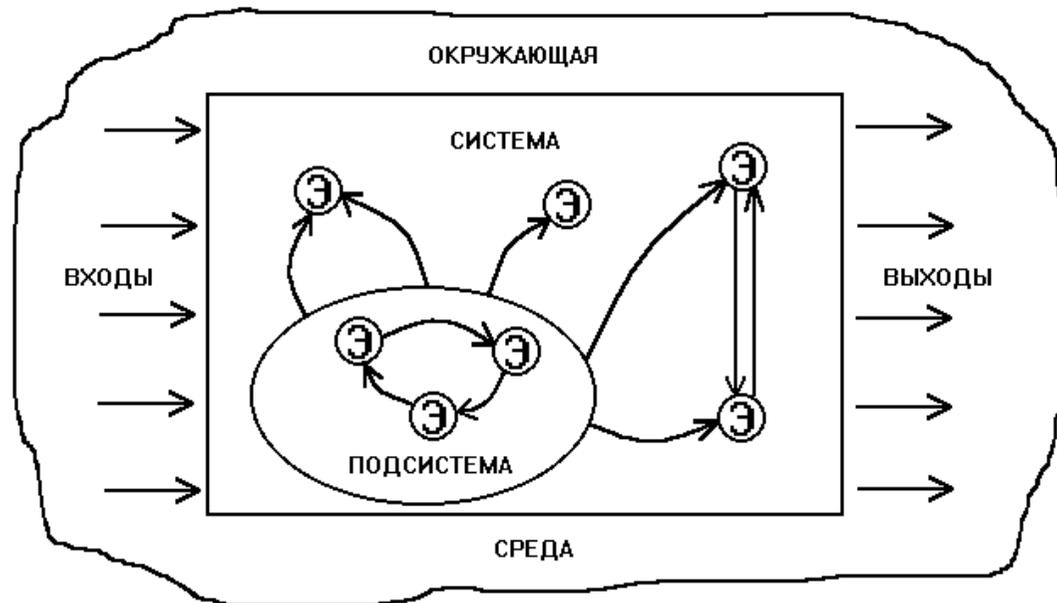
, —

,

,

«

»



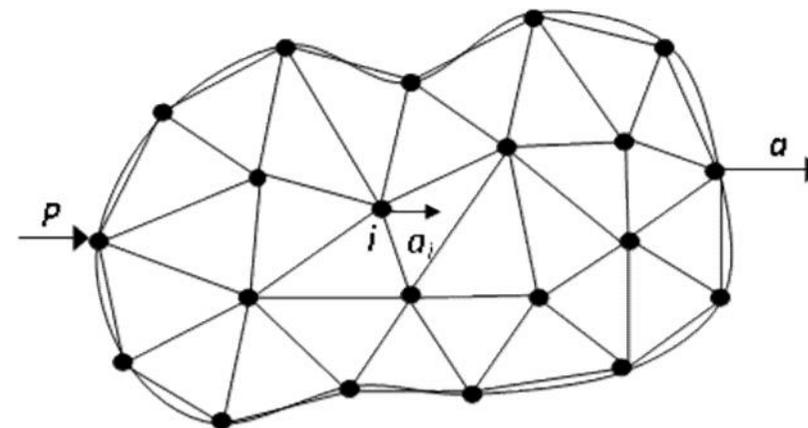


Рис. 4.4. Структурная модель абсолютно твердого тела при поступательном движении



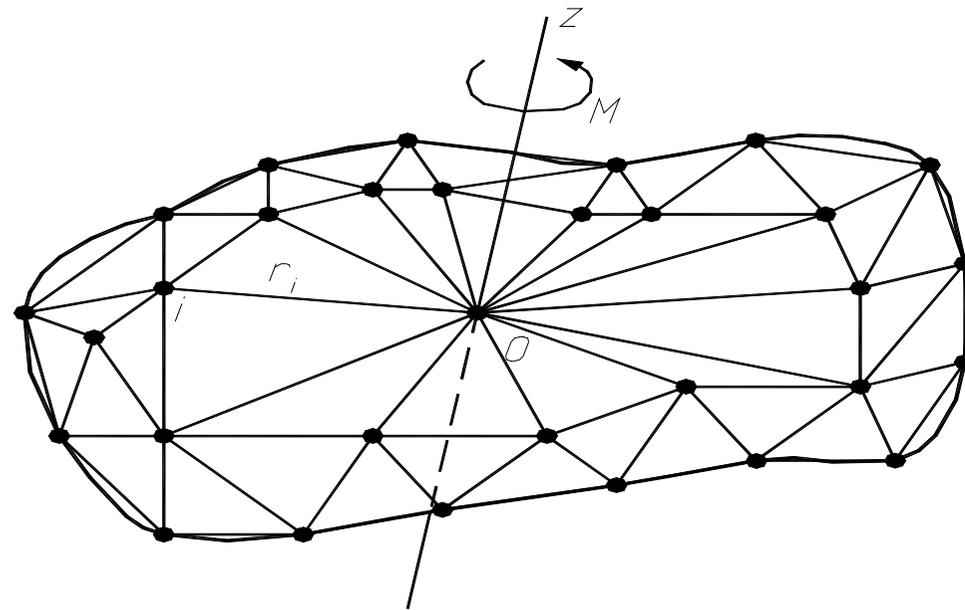
■
()
()
)
m –
, , , ,

$$\sum_{i=1}^N m_i = m$$



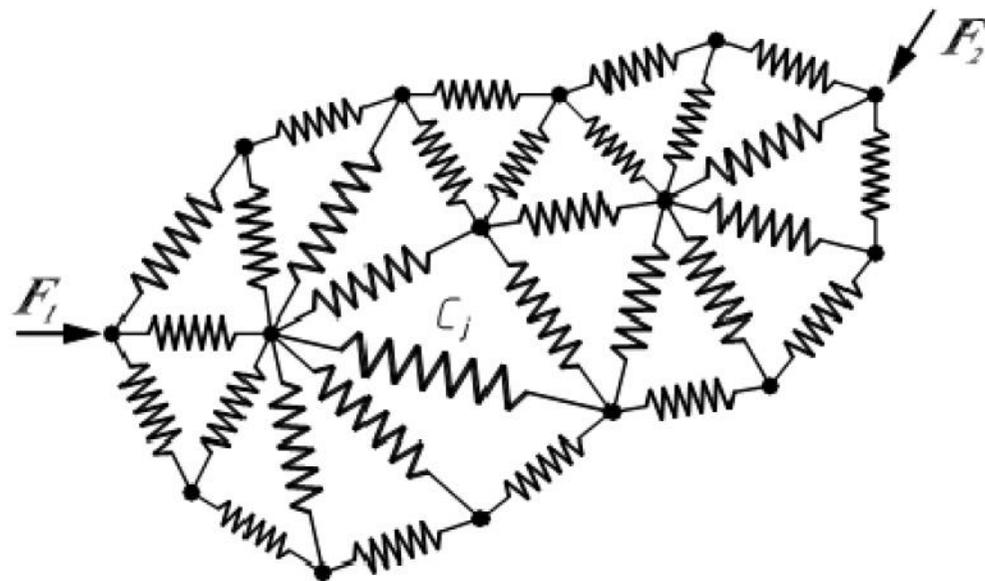
Z:

$$I_z = \sum_{i=1}^N m_i r_i^2$$





(,) .
()
:



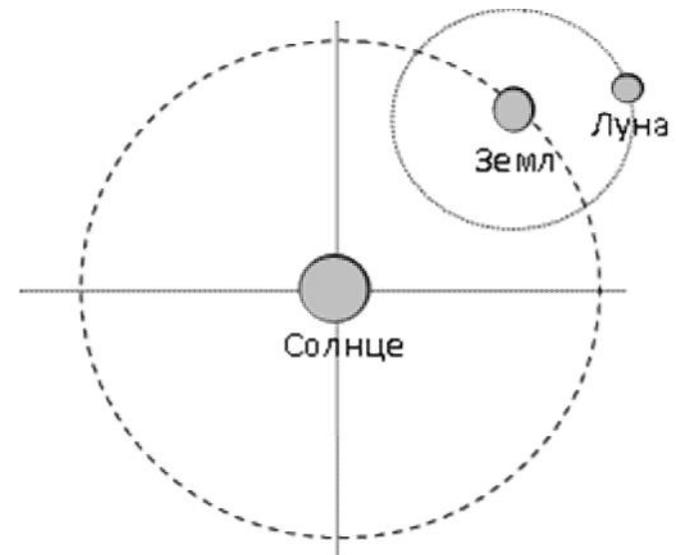


Рис. 4.12 Система
"Солнце-Земля-Луна"



“

■

”

—

—

•

•

•

,

•

•

,

•

•

()

—

,



2-

Oxy

$$\begin{cases} m_1 a_{1x} = -X \frac{m_1 M}{r_1^3} x_1 - X \frac{m_1 m_2}{r_{12}^3} (x_1 - x_2), \\ m_1 a_{1y} = -X \frac{m_1 M}{r_1^3} y_1 - X \frac{m_1 m_2}{r_{12}^3} (y_1 - y_2), \\ m_2 a_{2x} = -X \frac{m_2 M}{r_2^3} x_2 - X \frac{m_1 m_2}{r_{12}^3} (x_2 - x_1), \\ m_2 a_{2y} = -X \frac{m_2 M}{r_2^3} y_2 - X \frac{m_1 m_2}{r_{12}^3} (y_2 - y_1), \end{cases}$$

$$r_1 = \sqrt{x_1^2 + y_1^2}, \quad r_2 = \sqrt{x_2^2 + y_2^2}, \quad r_{12} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

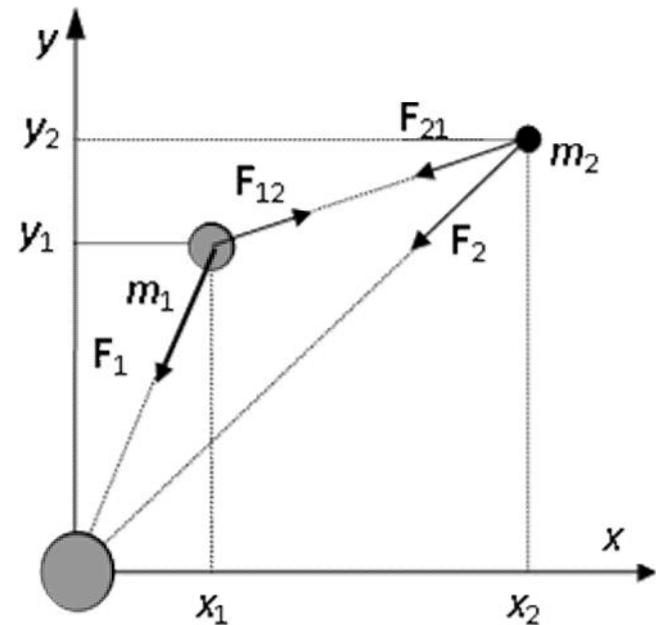


Рис. 4.13. Структурная схема системы двух тел в поле

нейтральных сил

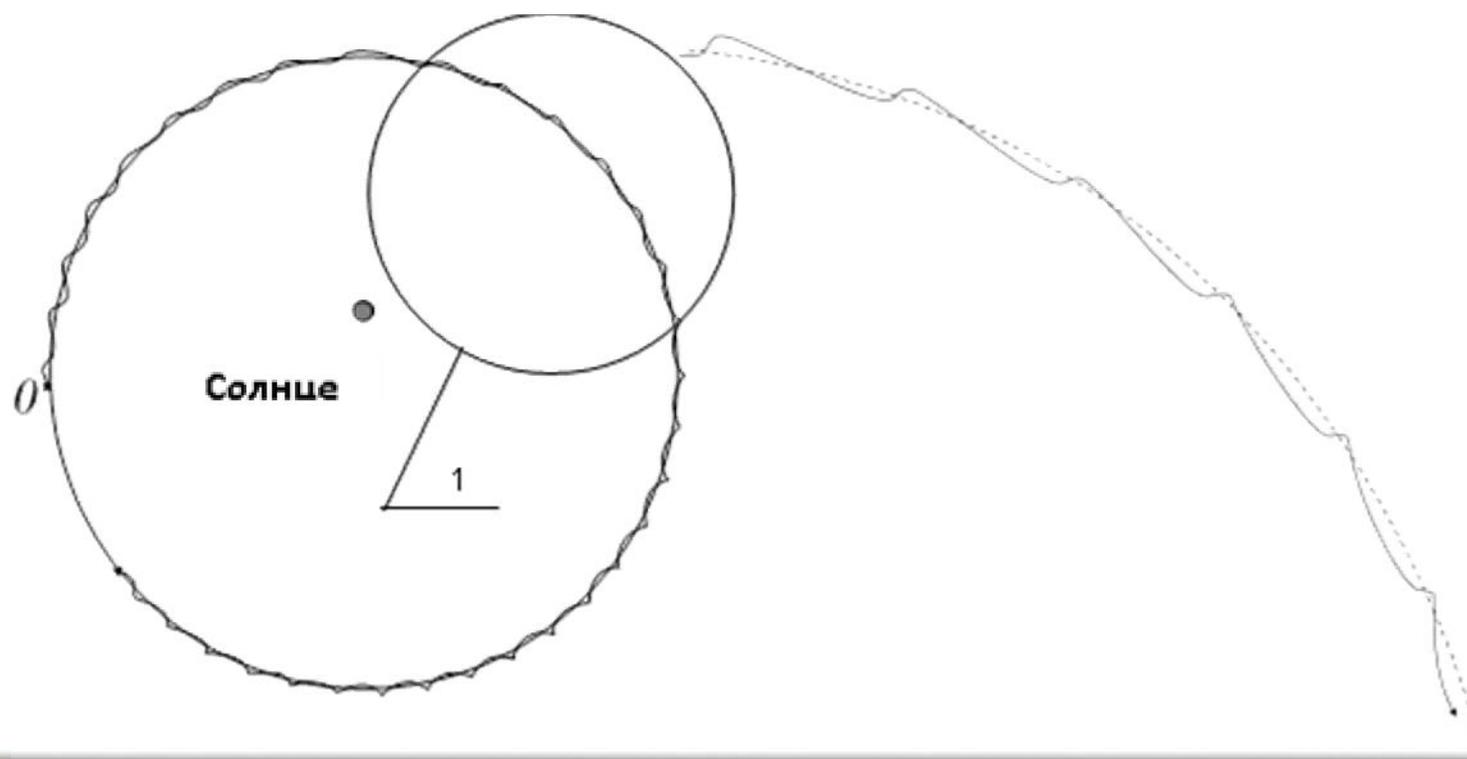


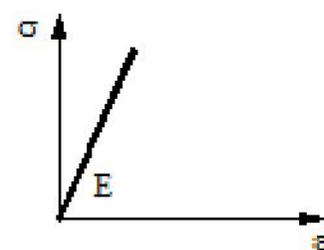
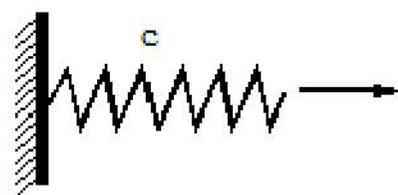
“

■

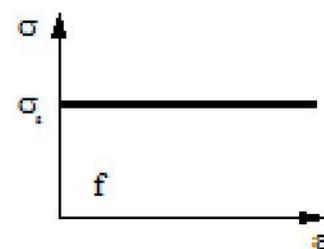
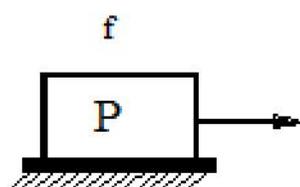
”

— —

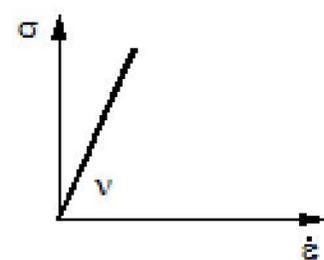
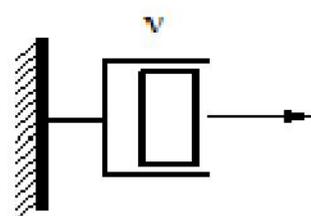




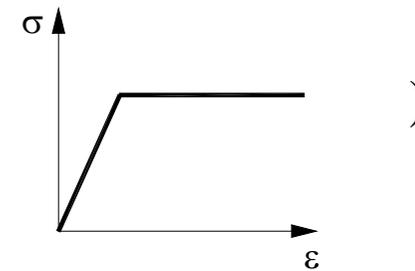
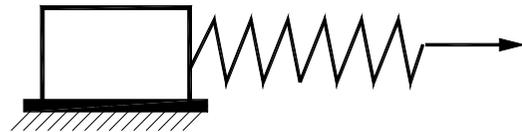
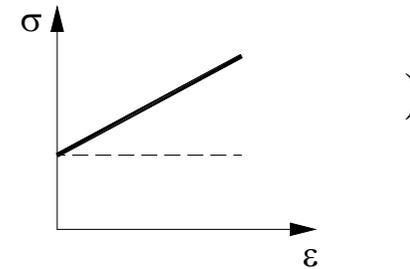
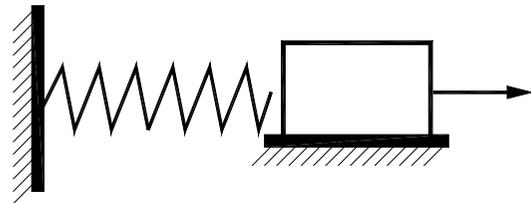
a)



б)



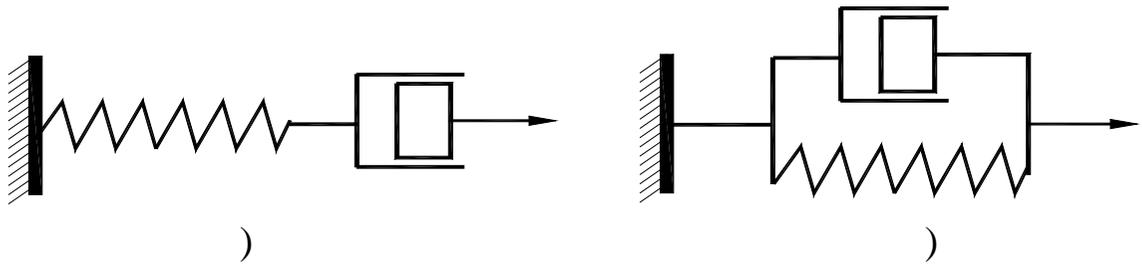
в)





((),) .

(;), () .



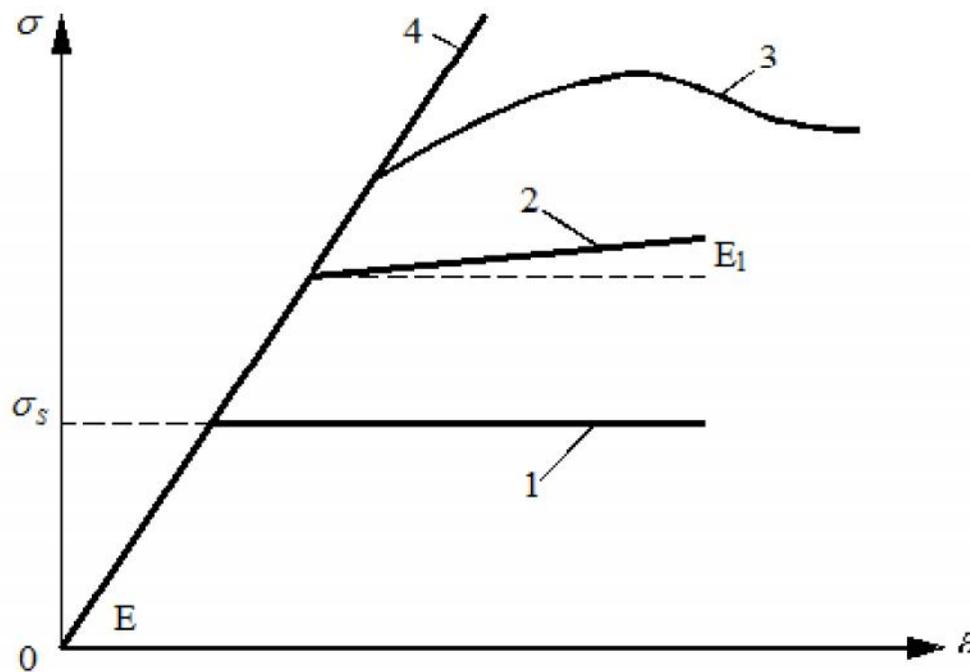
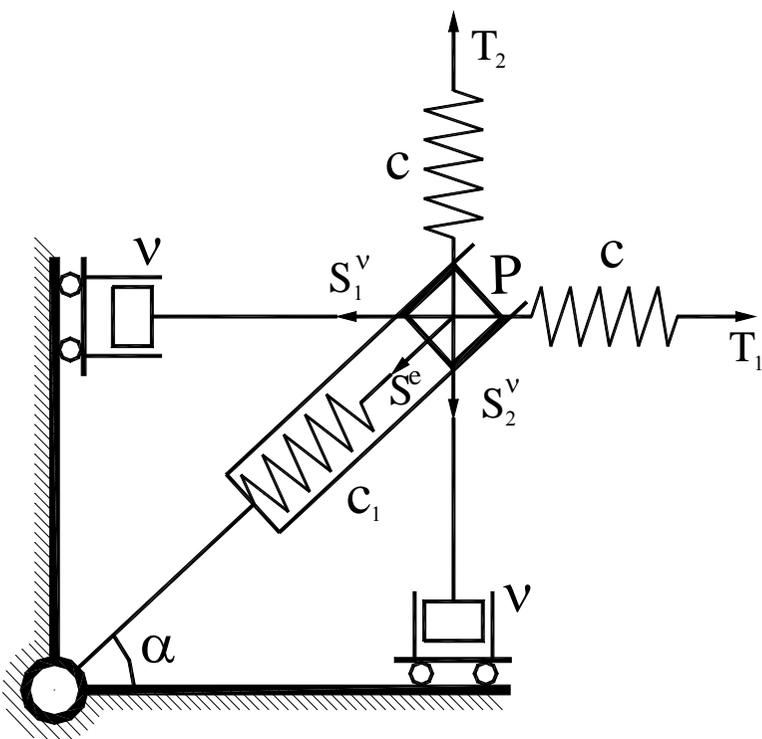


Рис. 4.19. Различные диаграммы деформирования