

Melléklet – Szimulációs eredmények

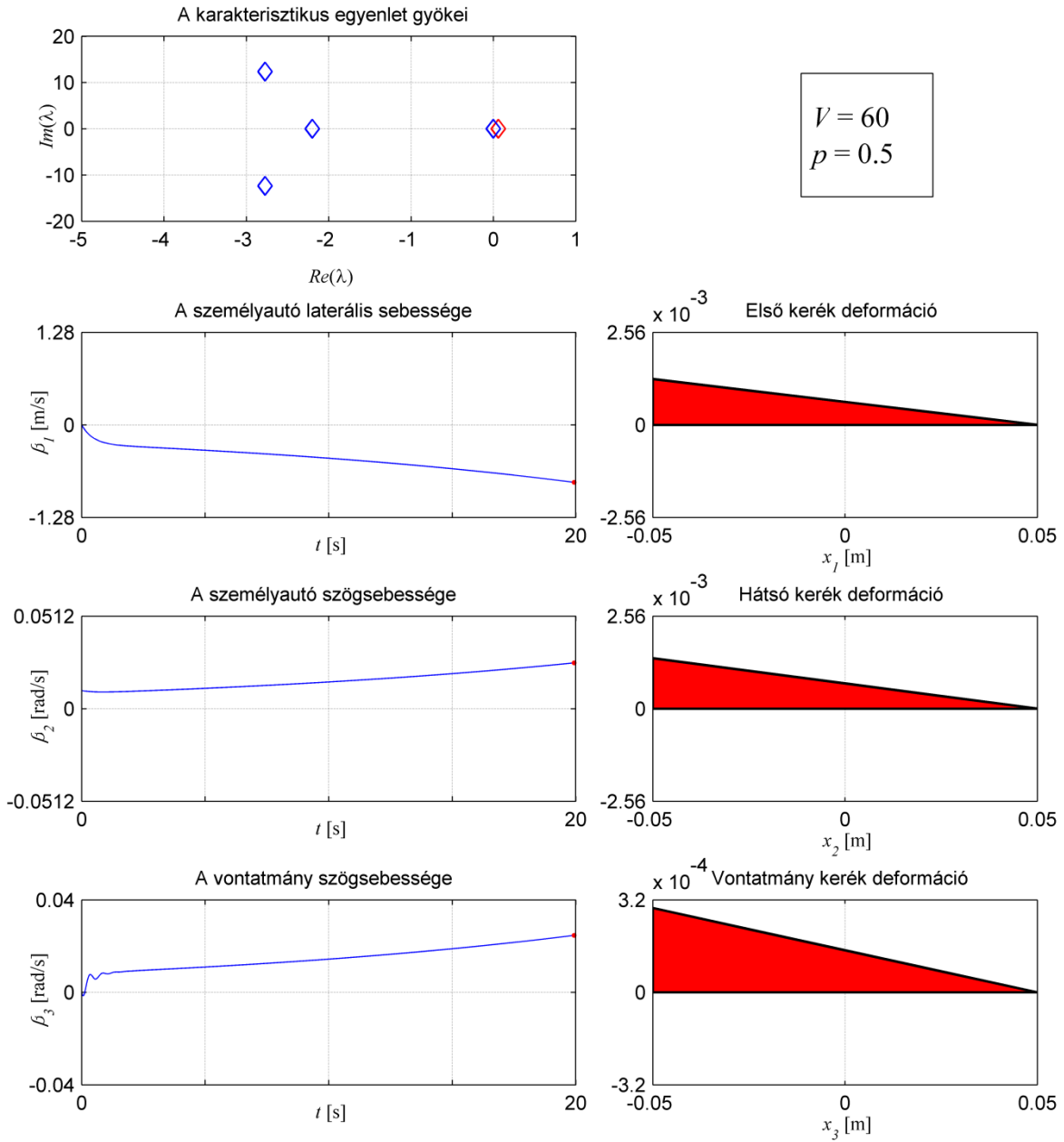
1. Instabil tartomány I.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0,01 \frac{\text{rad}}{\text{s}} \quad \beta_3(0) = 0$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,05 \text{ rad},$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



1. ábra

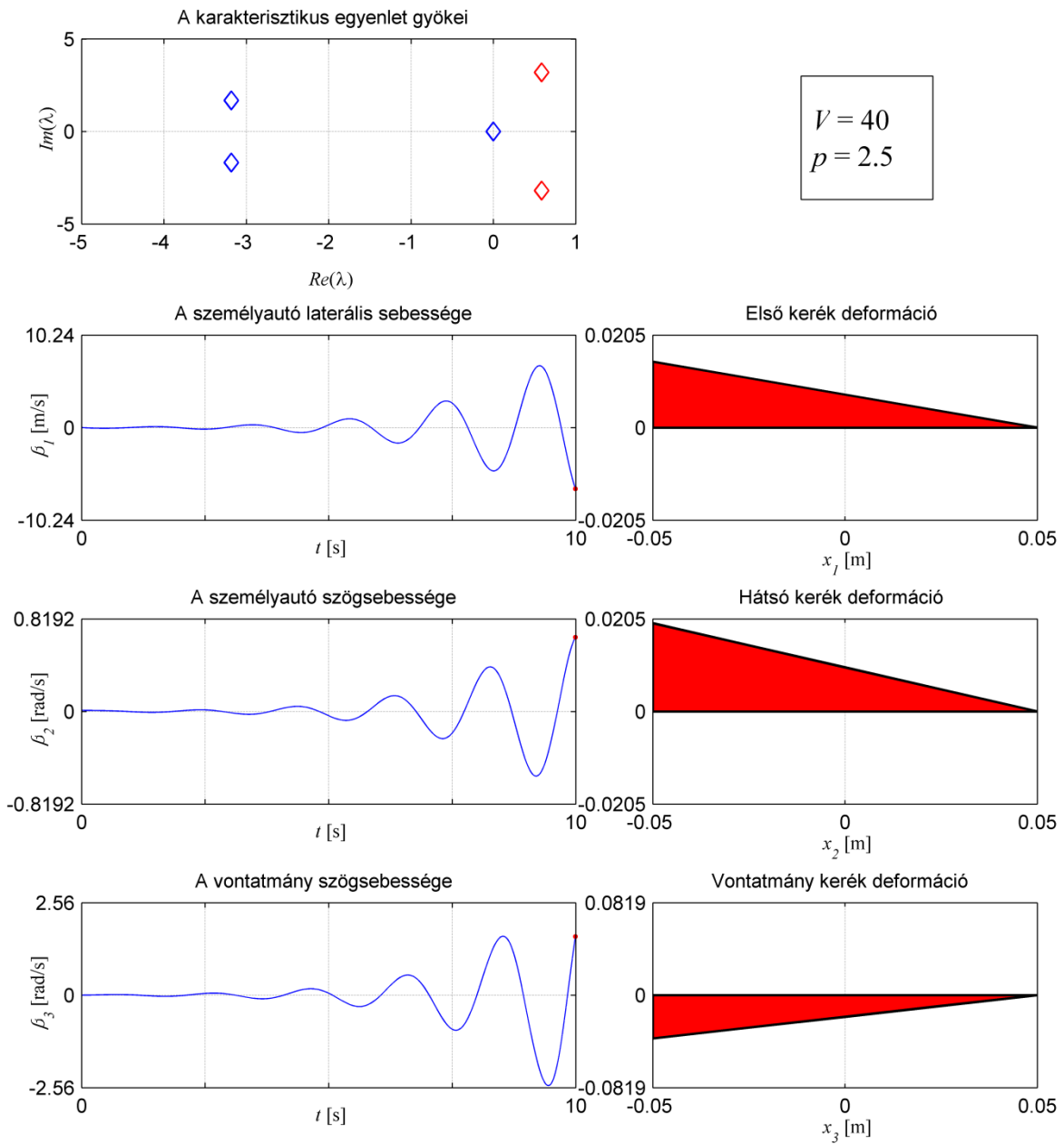
2. Instabil tartomány II.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0,01 \frac{\text{rad}}{\text{s}} \quad \beta_3(0) = 0$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,05 \text{ rad},$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



2. ábra

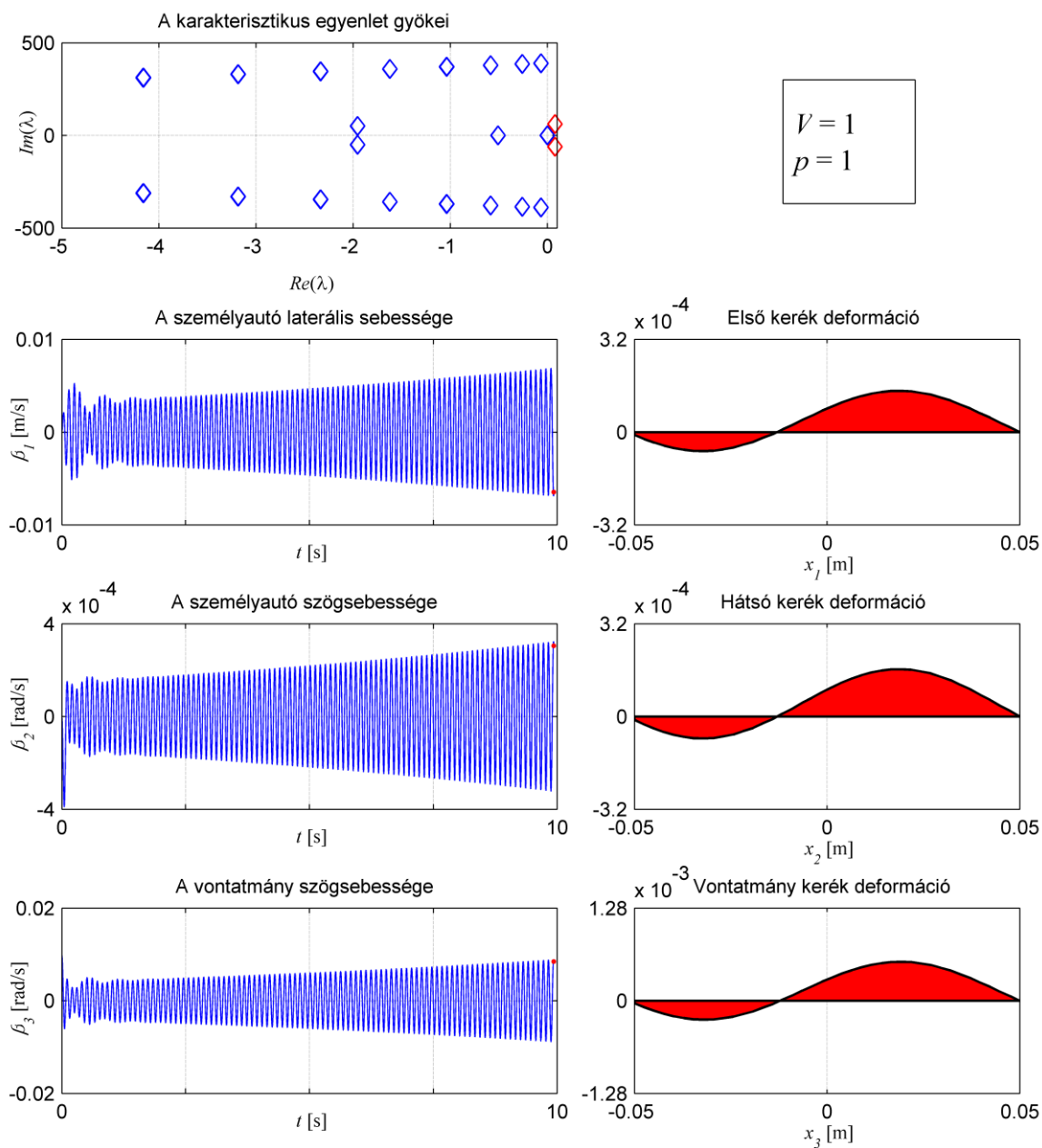
3. Instabil tartomány III.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0, \quad \beta_3(0) = 0,01 \frac{\text{rad}}{\text{s}},$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,05 \text{ rad},$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



3. ábra

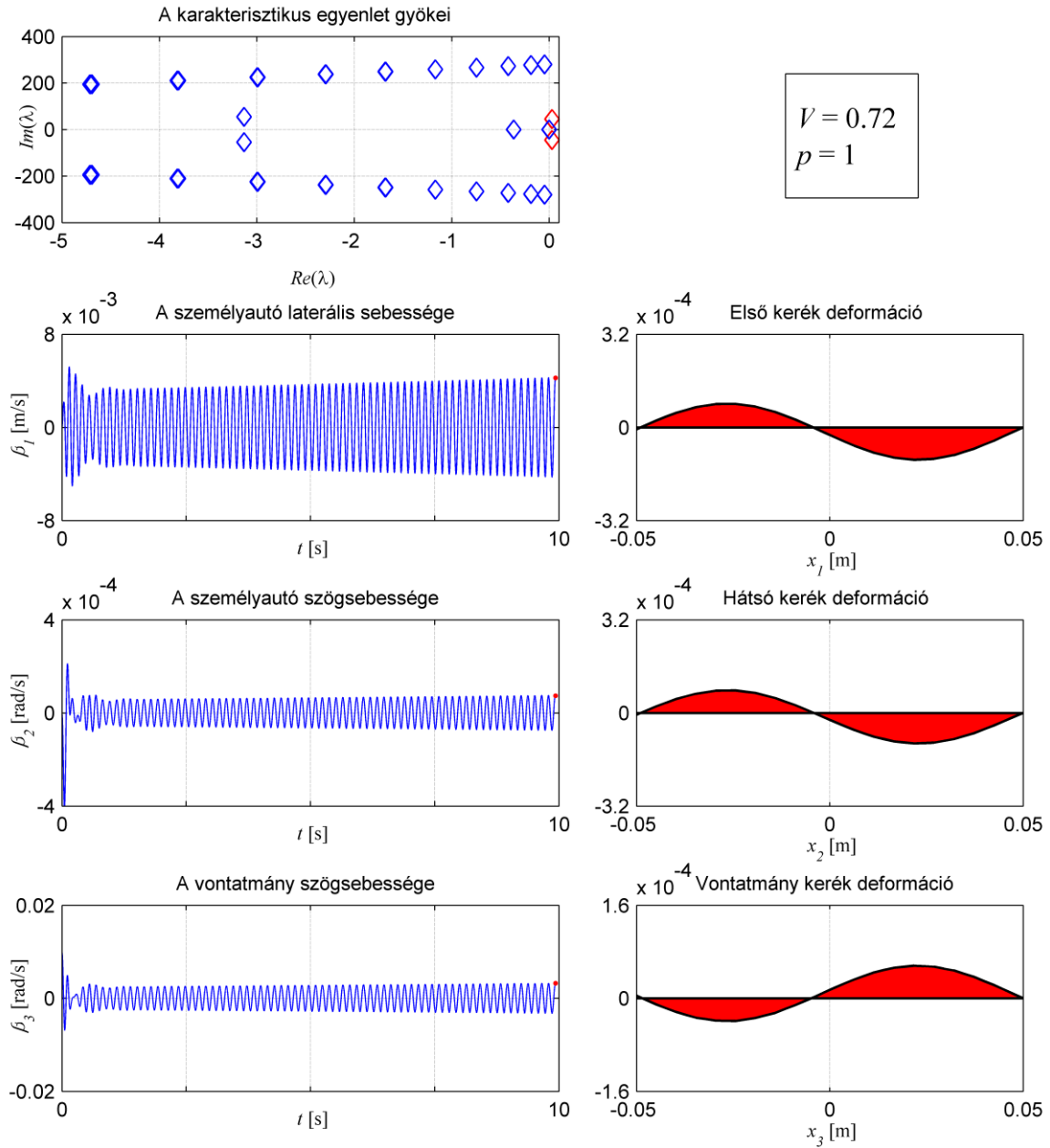
4. Instabil tartomány IV.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0, \quad \beta_3(0) = 0,01 \frac{\text{rad}}{\text{s}},$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



4. ábra

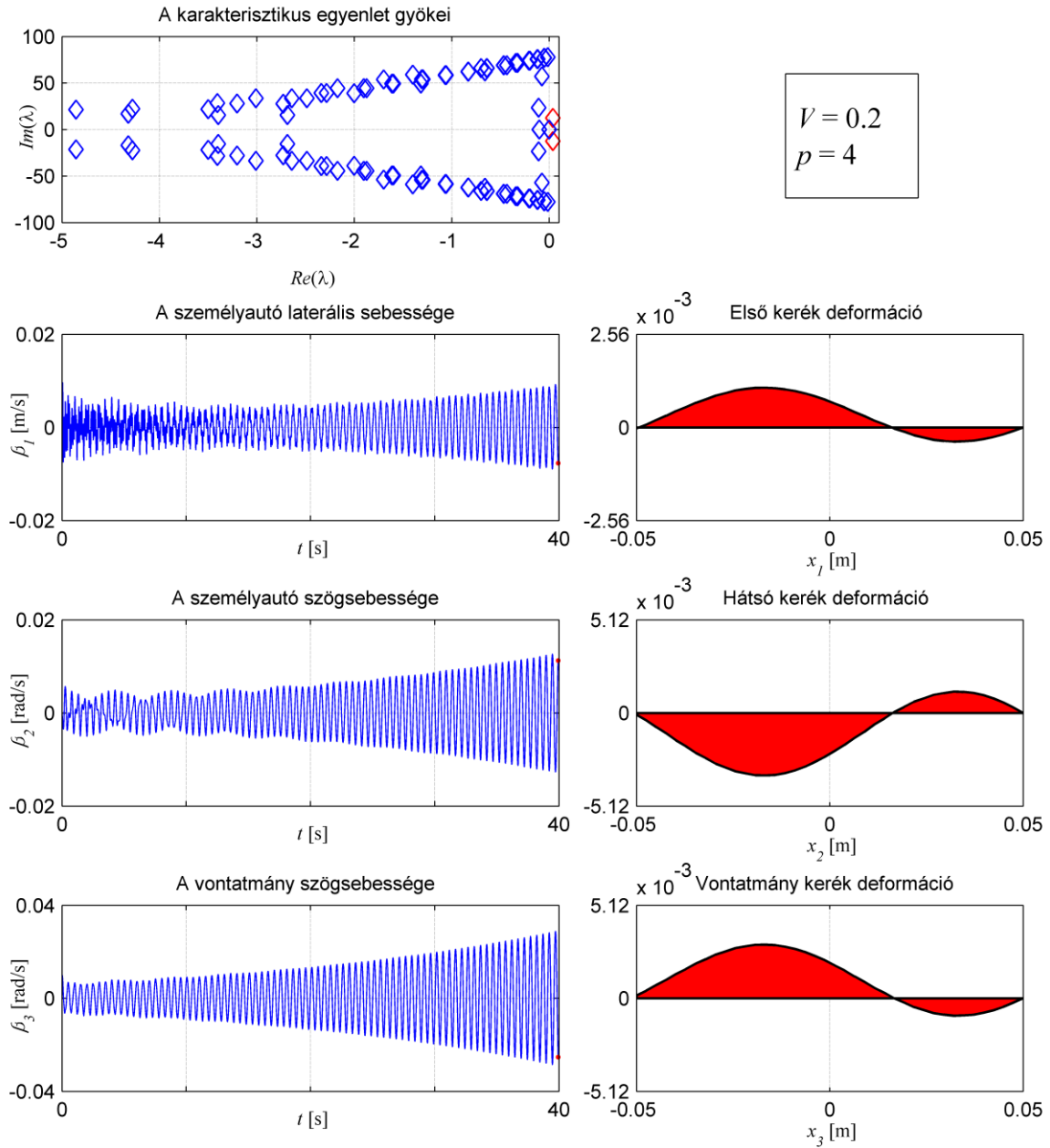
5. Instabil tartomány V.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0, \quad \beta_3(0) = 0,01 \frac{\text{rad}}{\text{s}},$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



5. ábra

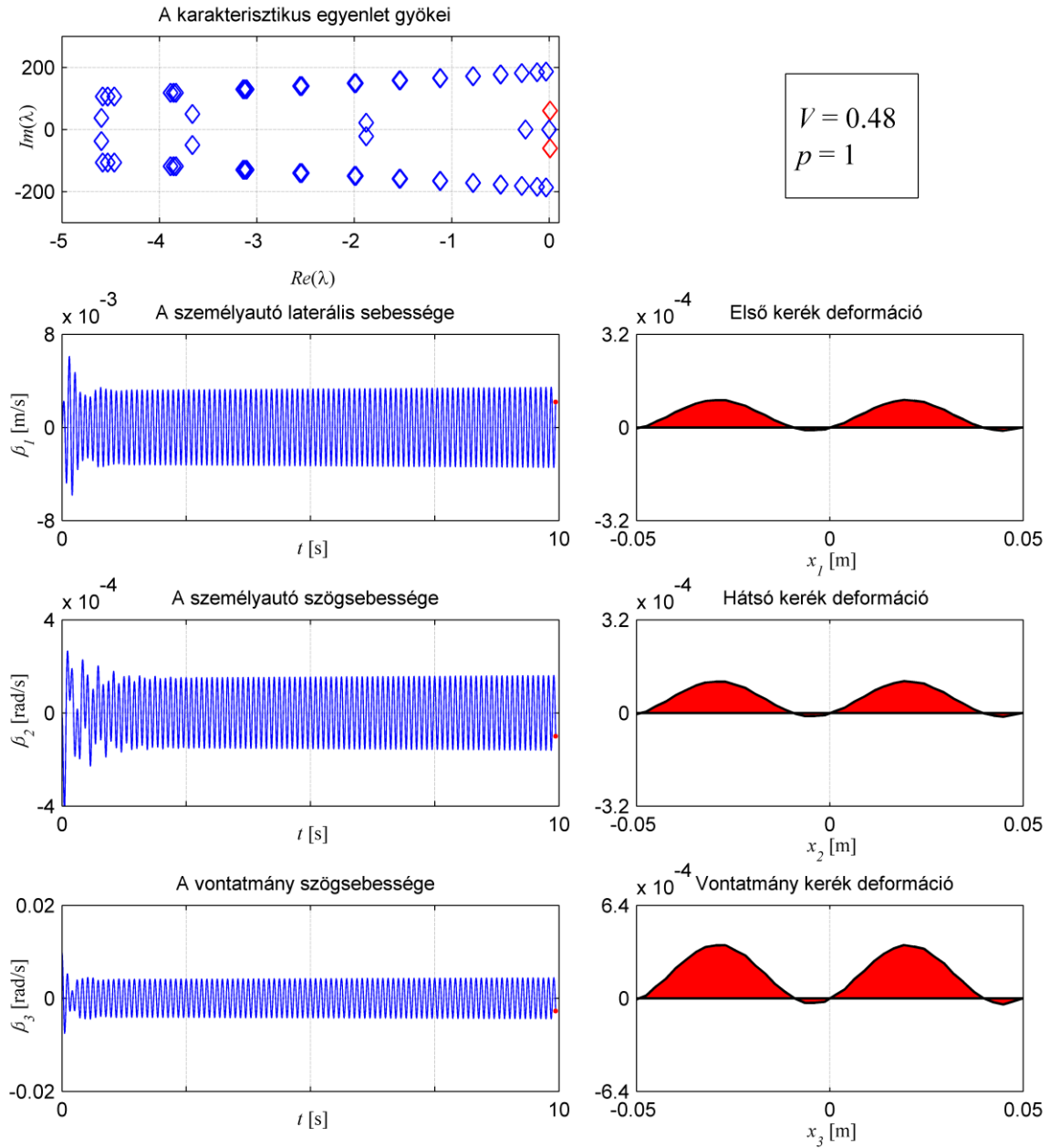
6. Instabil tartomány VI.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0, \quad \beta_3(0) = 0,01 \frac{\text{rad}}{\text{s}},$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



6. ábra

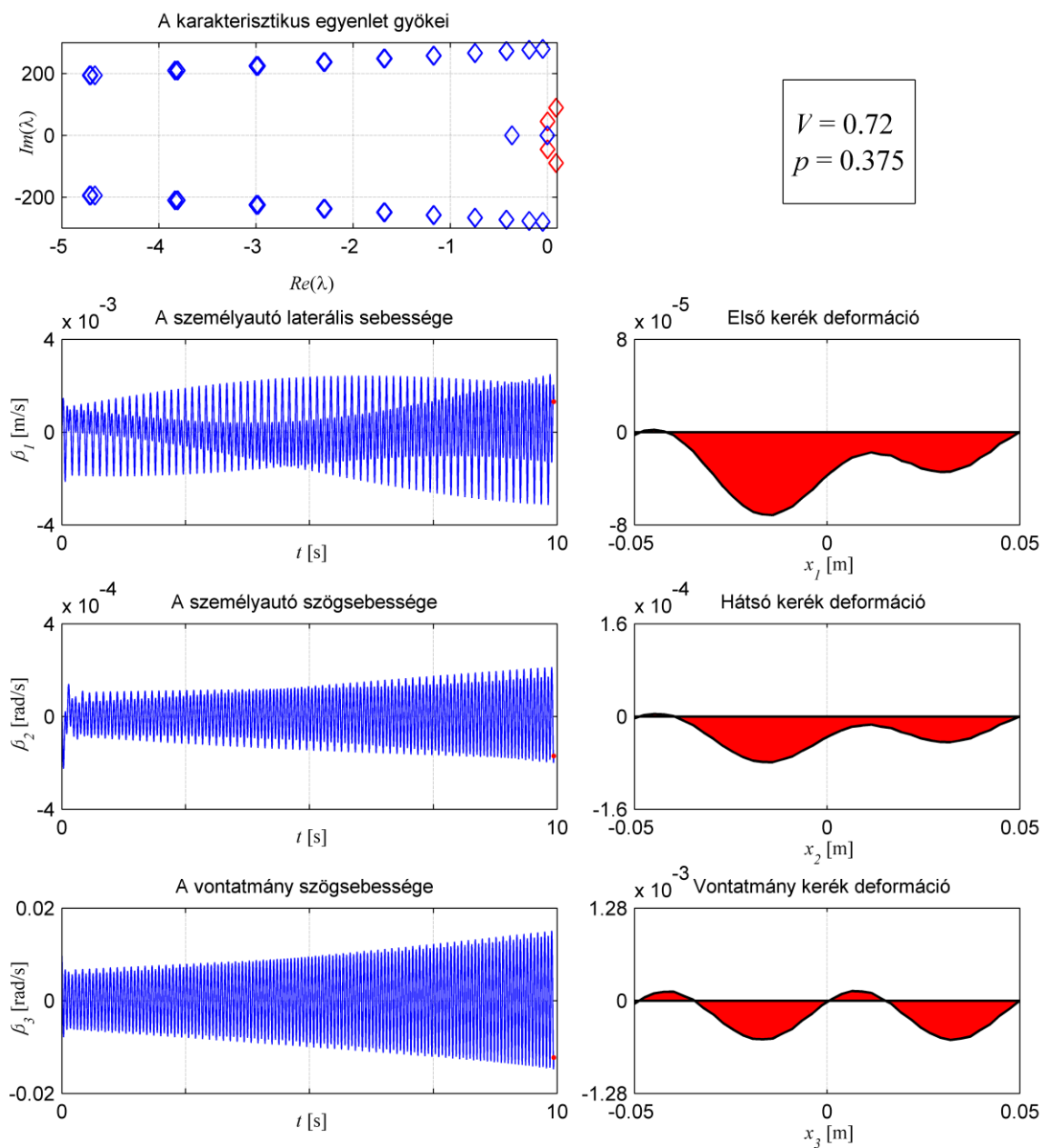
7. Instabil tartomány VII.

A kezdeti feltételek:

$$\beta_1(0) = 0, \quad \beta_2(0) = 0, \quad \beta_3(0) = 0,01 \frac{\text{rad}}{\text{s}},$$

$$\psi_1(0) = 0, \quad \psi_2(0) = 0,$$

$$q_i(a_0, 0) = 0, \quad \dot{q}_i(a_0, 0) = 0, \quad i = 1, 2, 3.$$



7. ábra