

Documentation for the use of the *tikzcivil* package

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Chapter 1

Drawing for the Structural Analysis

1.1 Dynamic

1.1.1 `\MassWithSpring` command

This command draws a typical mass-spring system. It supports also an optional damper and displacement. The basic behavior of this command is shown in fig. 1.1.

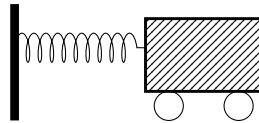


Figure 1.1: Mass-Spring system

```
1 \begin{tikzpicture}[scale=1]
2   \MassWithSpring[]
3 \end{tikzpicture}
```

More interesting behaviours can be achieved using the optional key values, as shown in fig .

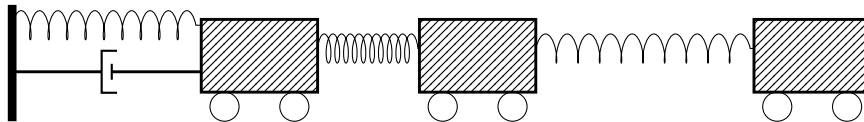
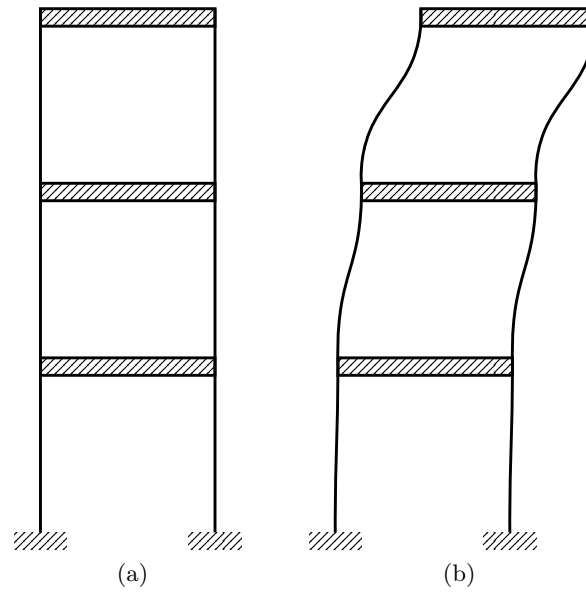


Figure 1.2: More complex mass-spring system

```
1 \begin{tikzpicture}[scale=1]
2   \MassWithSpring[displacement = 2em, with damper = true]
3   \MassWithSpring[displacement = -1em, with wall = false, position
4     = {10.5em,0em}]
5   \MassWithSpring[displacement = 3em, with wall = false, position =
6     {18.0em,0em}]
7 \end{tikzpicture}
```



1.1.2 Múltiples marcos apilados

Dibujo izquierdo

```

1 \begin{tikzpicture}[scale=0.6]
2   \FrameDispl{0em,0em}{1}{0em}
3   \FrameDispl{0em,10em}{0}{0em}
4   \FrameDispl{0em,20em}{0}{0em}
5 \end{tikzpicture}

```

Dibujo derecho

```

1 \begin{tikzpicture}[scale=0.6]
2   \FrameDispl{0em,0em}{1}{0.15em}
3   \FrameDispl{0.15em,10em}{0}{1.35em}
4   \FrameDispl{1.5em,20em}{0}{3.4em}
5 \end{tikzpicture}

```

Chapter 2

Dibujos relacionados con la mecánica de suelos

