

Kvantitativni sastav spoja najčešće izražavamo masenim udjelima elemenata koji grade spoj.

MASENI UDIO ELEMENATA U SPOJU

Maseni udio elementa **E** u nekom spoju **S** računa se iz omjera mase elementa **E** i mase spoja **S**:

$$w(\text{element } \mathbf{E}, \text{ spoj } \mathbf{S}) = \frac{m(\text{element } \mathbf{E})}{m(\text{spoj } \mathbf{S})}$$

$$w(\text{element } \mathbf{E}, \text{ spoj } \mathbf{S}) = \frac{N(\text{element } \mathbf{E}) \cdot A_r(\text{element } \mathbf{E})}{M_r(\text{spoj } \mathbf{S})}$$

Riješeni zadatci 2., 3. i 6., udž. str.36.

K		O
(I)	(II)	(II)
39,10	16,00	
K	K	O
(I)	(I)	(II)
39,10	39,10	16,00

Koliki je maseni udio kalija u kalijevu oksidu ?

Traži se: $w(\text{K}, \text{K}_2\text{O}) = ?$

$$w(\text{K}, \text{K}_2\text{O}) = \frac{2 \cdot A_r(\text{K})}{M_r(\text{K}_2\text{O})} = \frac{2 \cdot A_r(\text{K})}{2 \cdot A_r(\text{K}) + A_r(\text{O})}$$
$$= \frac{2 \cdot 39,10}{2 \cdot 39,10 + 16,00} = \frac{78,2}{94,2} = 0,830$$
$$w(\text{K}, \text{K}_2\text{O}) = 0,830 \cdot 100 = 83\%$$