

# **TROKOMPONENTNI SISTEMI**

# Trokomponentni sistemi

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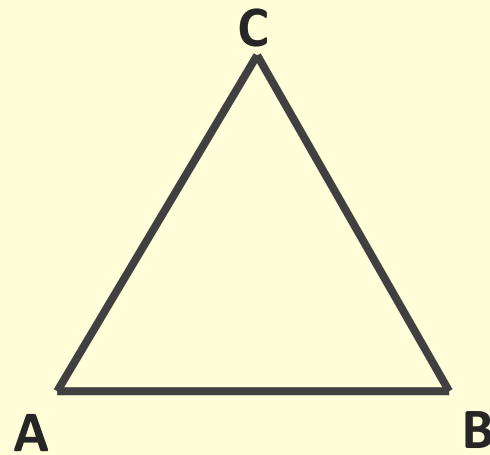
1. Komponente potpuno mešljive u tečnom stanju
2. Komponente delimično mešljive u tečnom stanju
3. Sistemi dve čvrste i jedne tečne komponente
4. Sistemi tri čvrste komponente

# Trougaone koordinate

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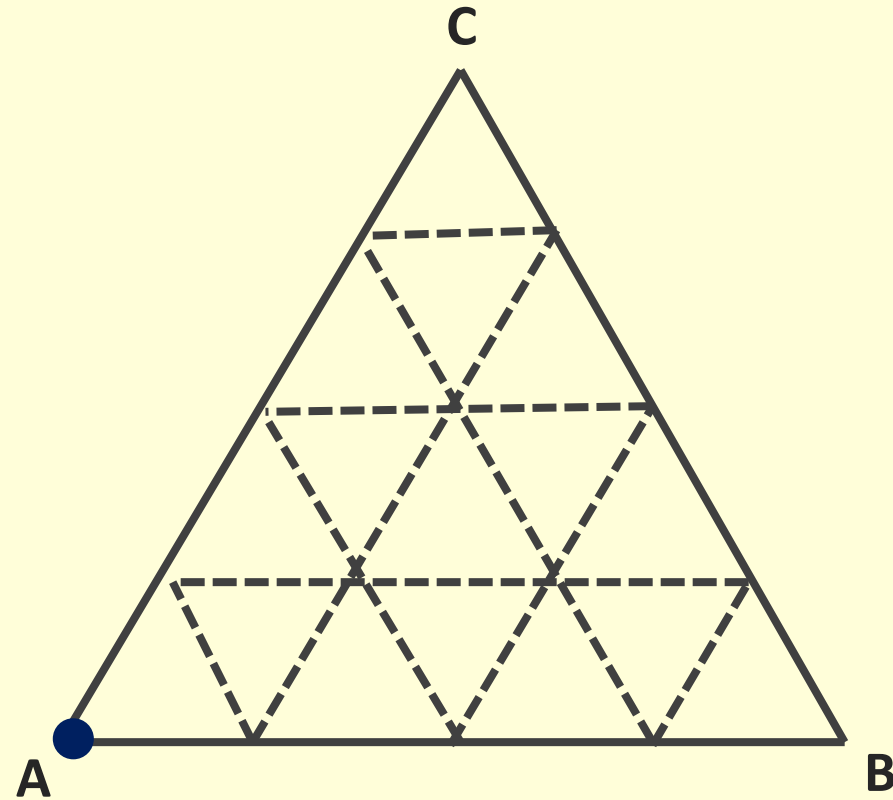
$$F = 3 - 1 + 2 = 4$$

$F = 2$  za  $P = \text{const.}$  i  $T = \text{const.}$



# Trougaone koordinate

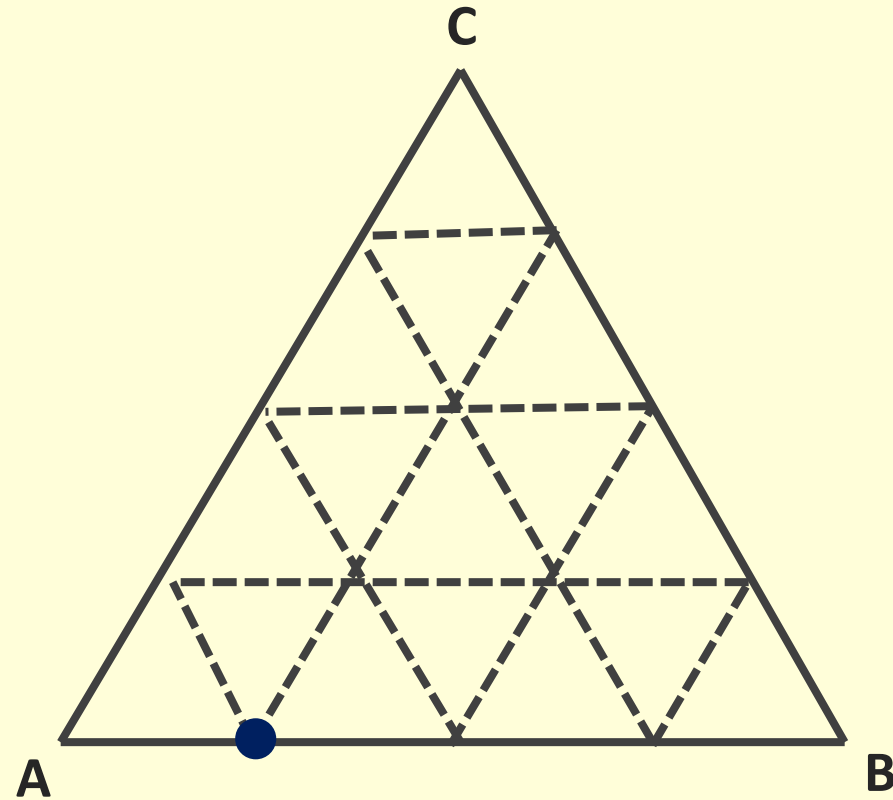
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$$x_A = 1,00; \quad x_B = 0,00; \quad x_C = 0,00$$

# Trougaone koordinate

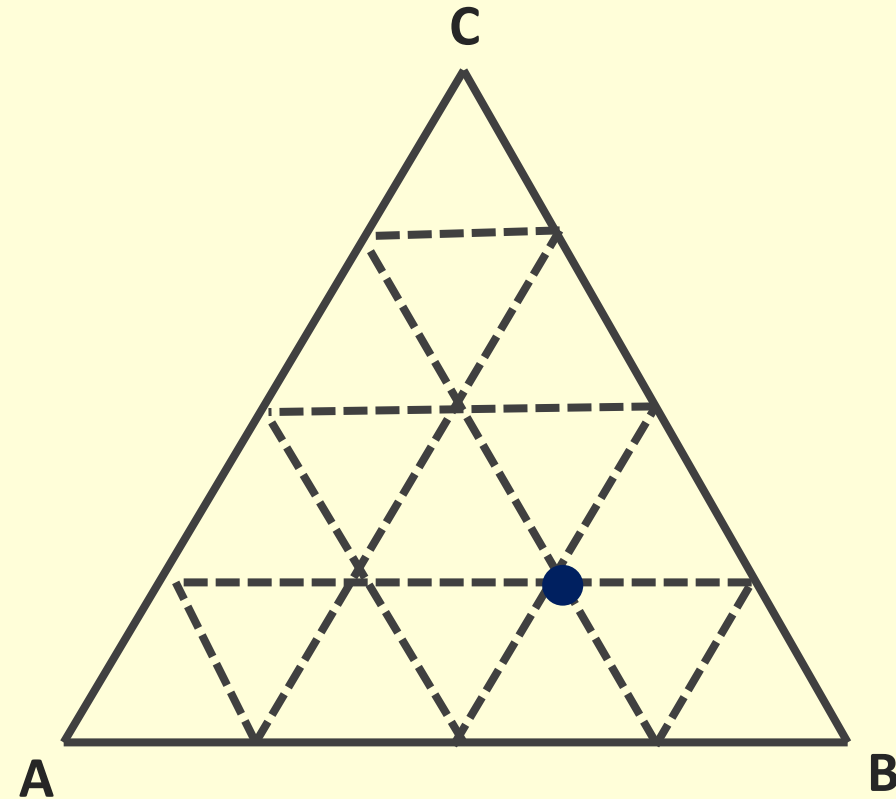
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$$x_A = 0,75; \quad x_B = 0,25; \quad x_C = 0,00$$

# Trougaone koordinate

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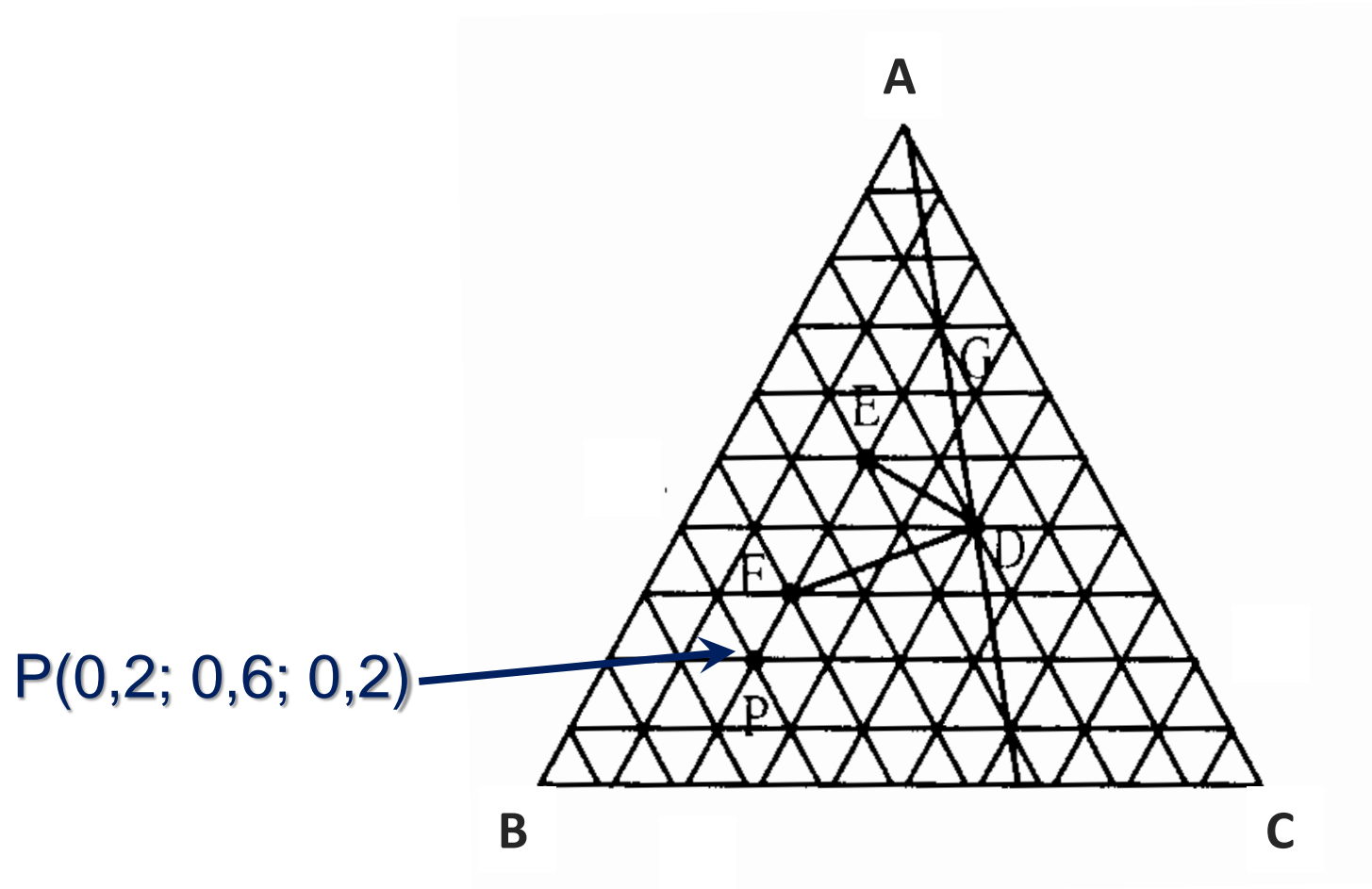
$$x_A = 0,25; \quad x_B = 0,50; \quad x_C = 0,25$$

# Trokomponentni sistemi

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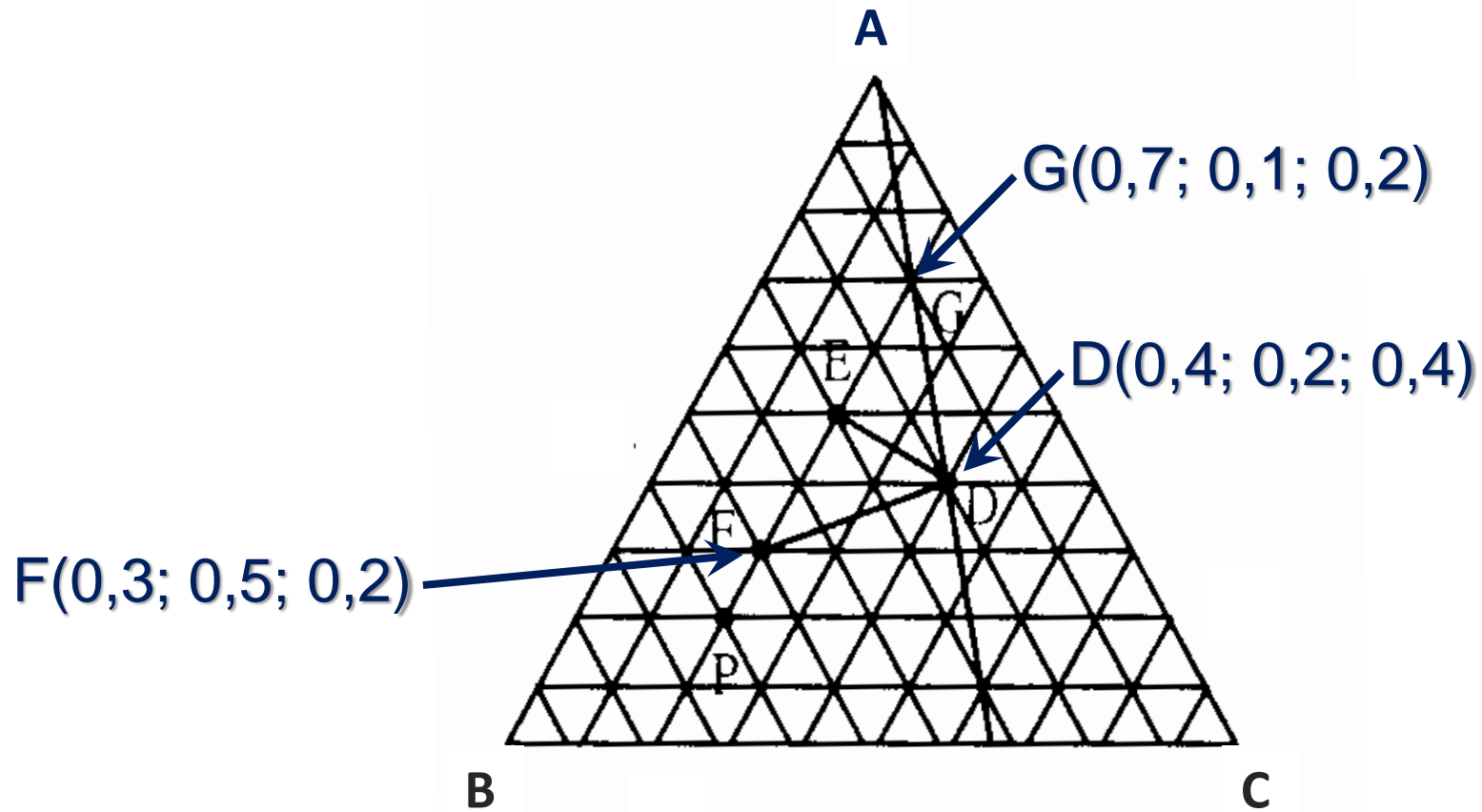
1. Komponente potpuno mešljive u tečnom stanju
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# Potpuno mešljive tečnosti





# Potpuno mešljive tečnosti

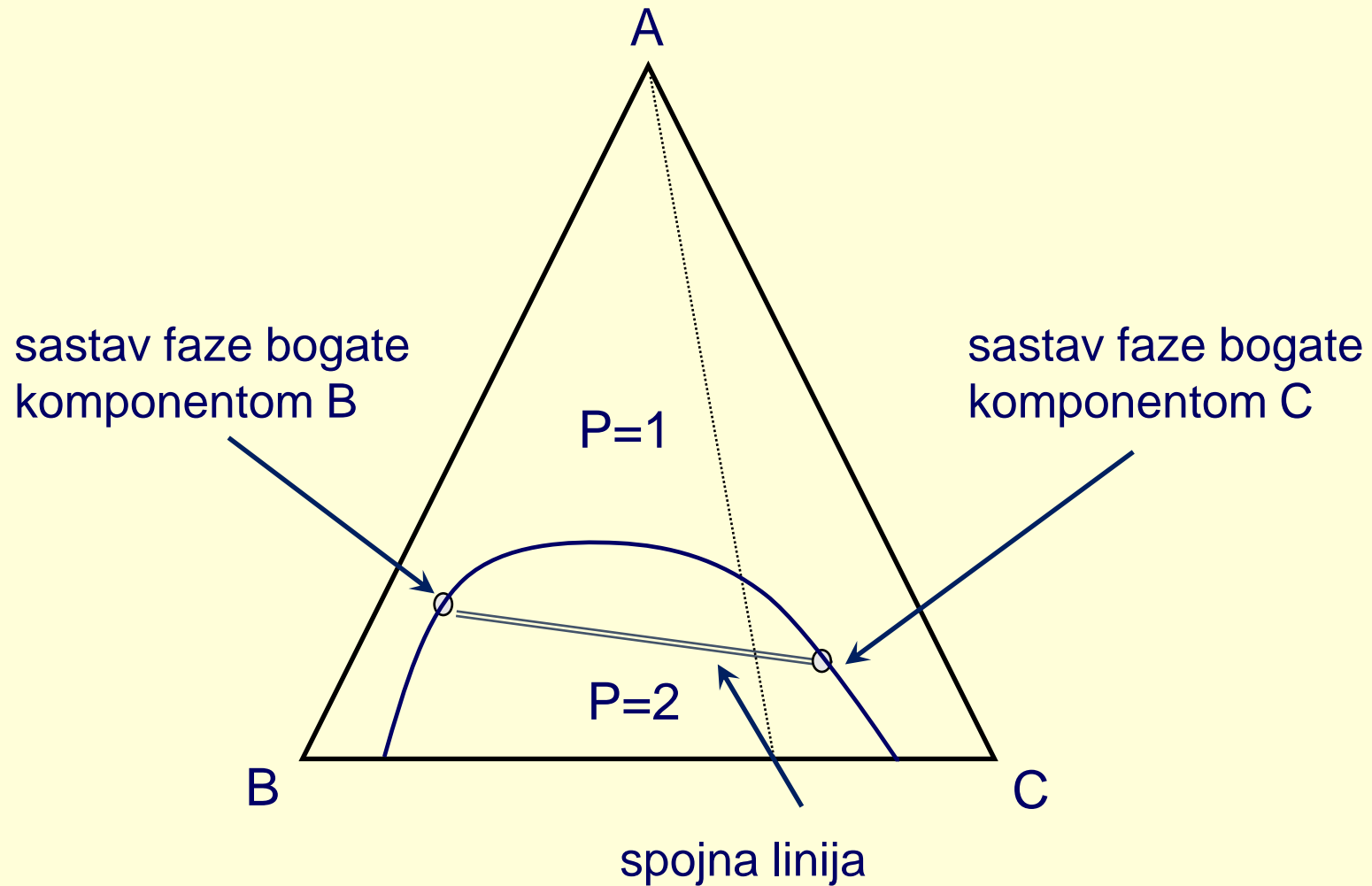


# Trokomponentni sistemi

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1. Komponente potpuno mešljive u tečnom stanju
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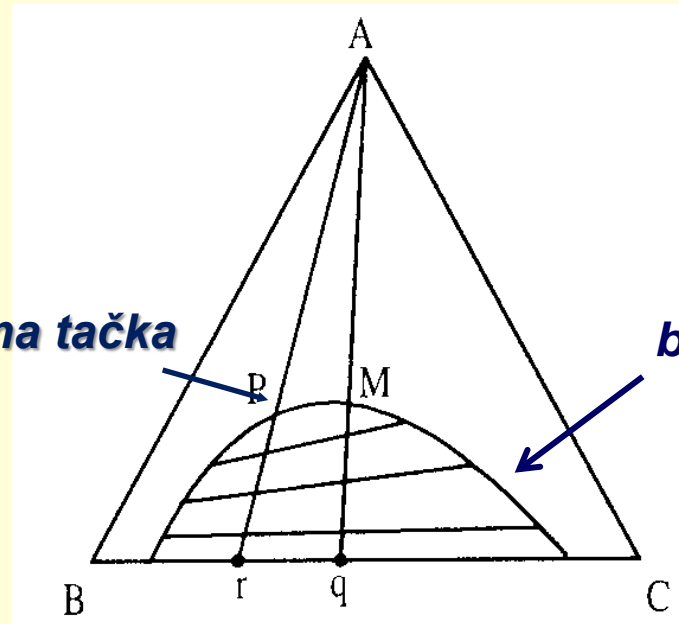
# Par delimično mešljivih tečnosti



# Par delimično mešljivih tečnosti

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*izotermalna kritična tačka  
ili spletna tačka*

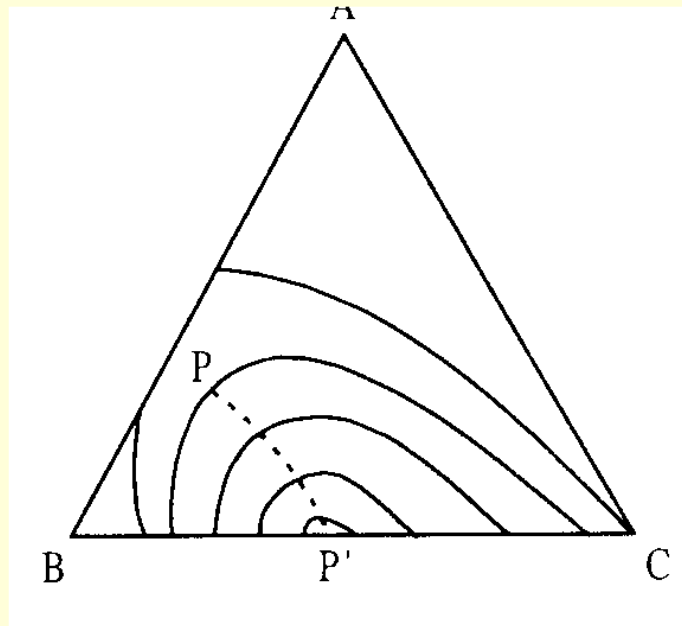


*binodalna kriva*

# Par delimično mešljivih tečnosti

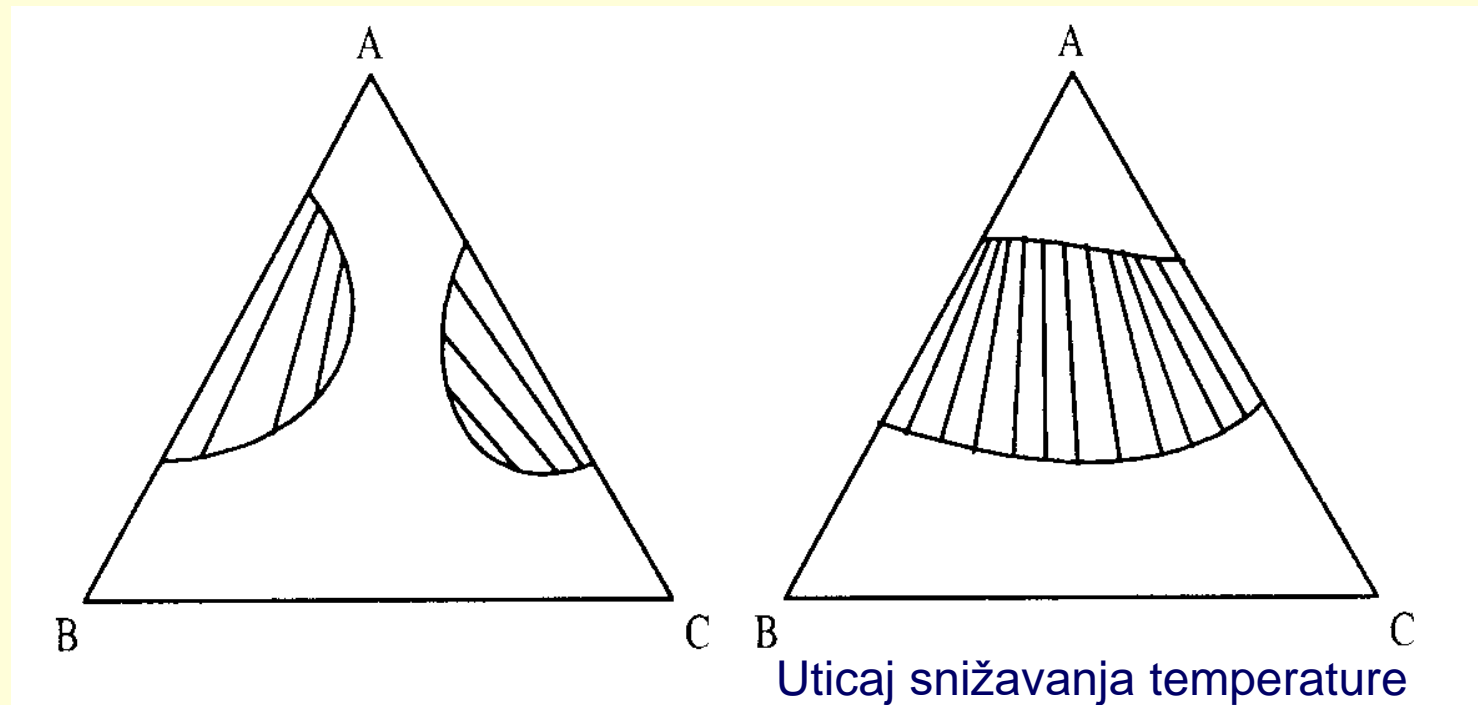
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Uticaj temperature



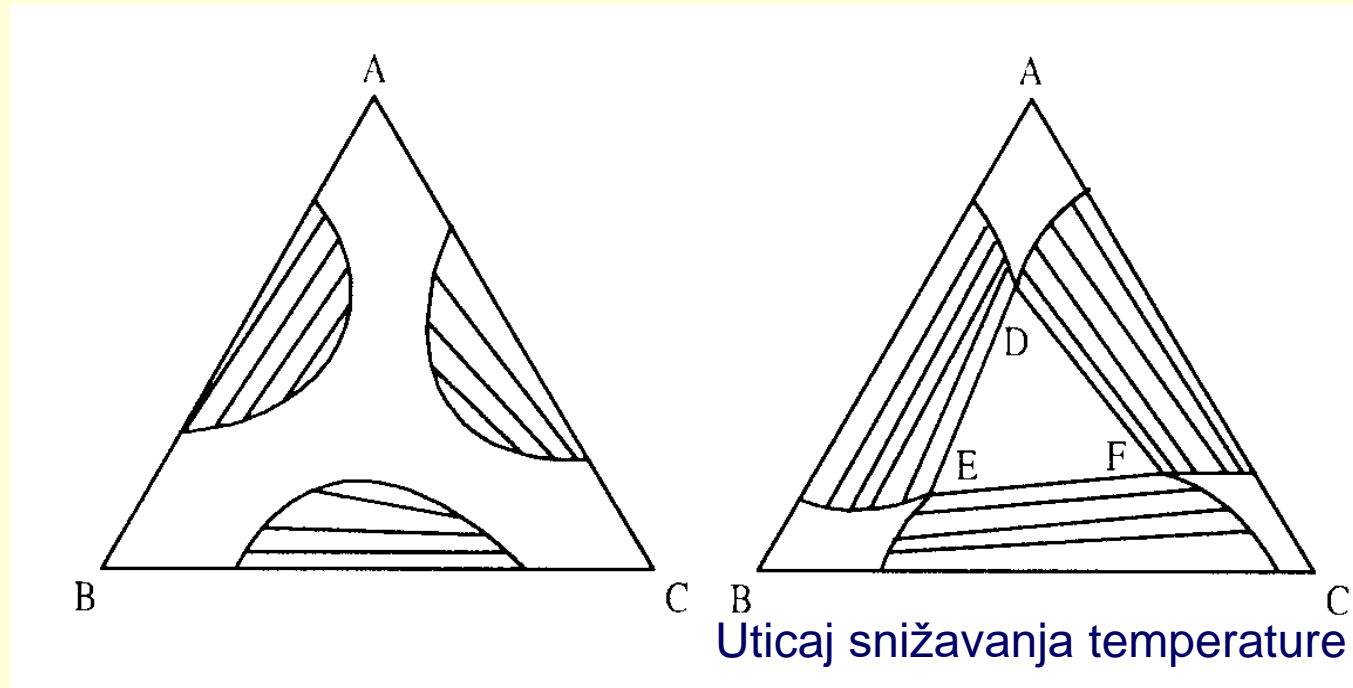
# Dva para delimično mešljivih tečnosti

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# Tri para delimično mešljivih tečnosti

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# Trokomponentni sistemi

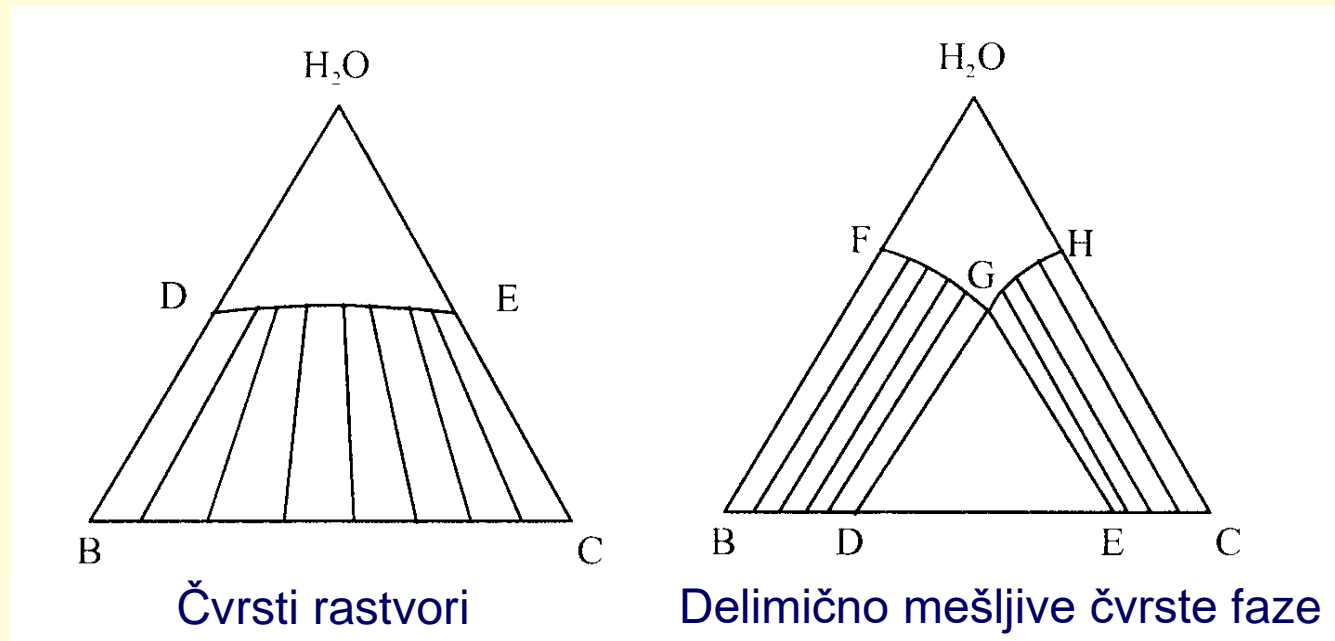
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1. Komponente potpuno mešljive u tečnom stanju
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3. **Sistemi dve čvrste i jedne tečne komponente**
4. Sistemi tri čvrste komponente



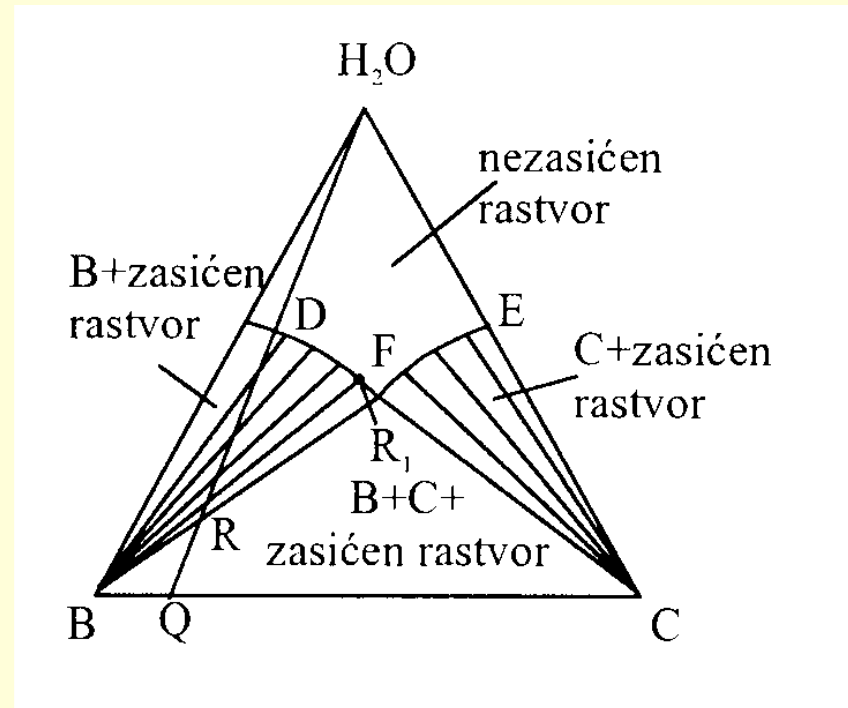
# Stvaranje čvrstih rastvora

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# Dve komponente u čvrstom stanju

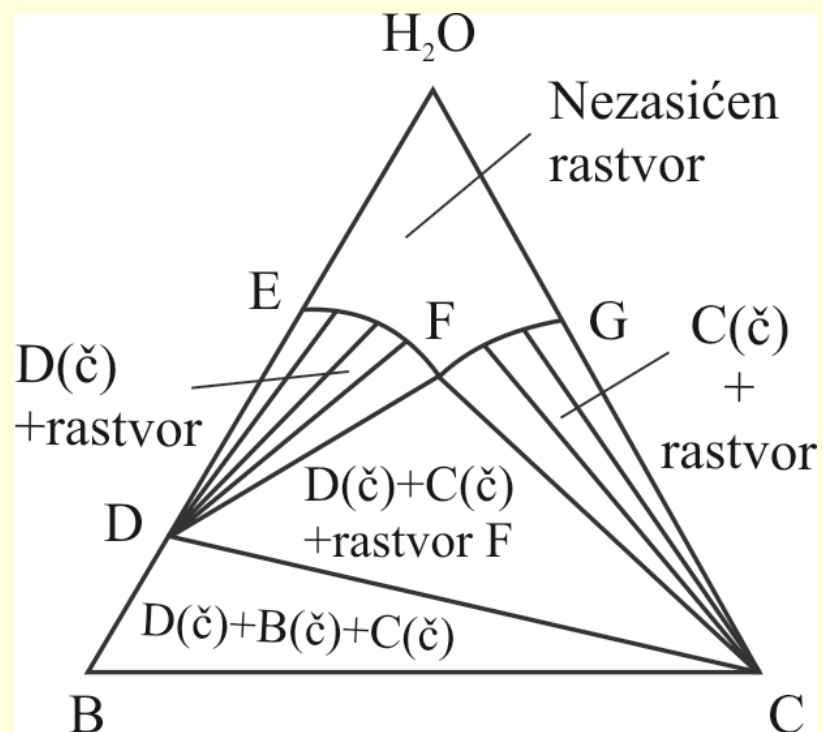
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F-izotermalna invarijantna tačka

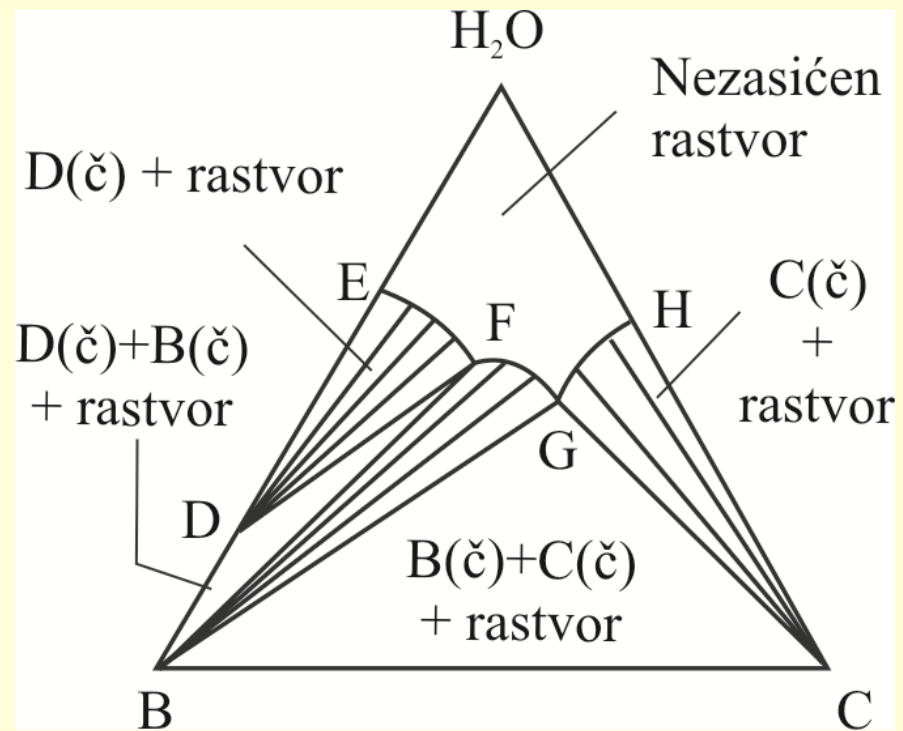
# Stvaranje binarnih jedinjenja – primer 1

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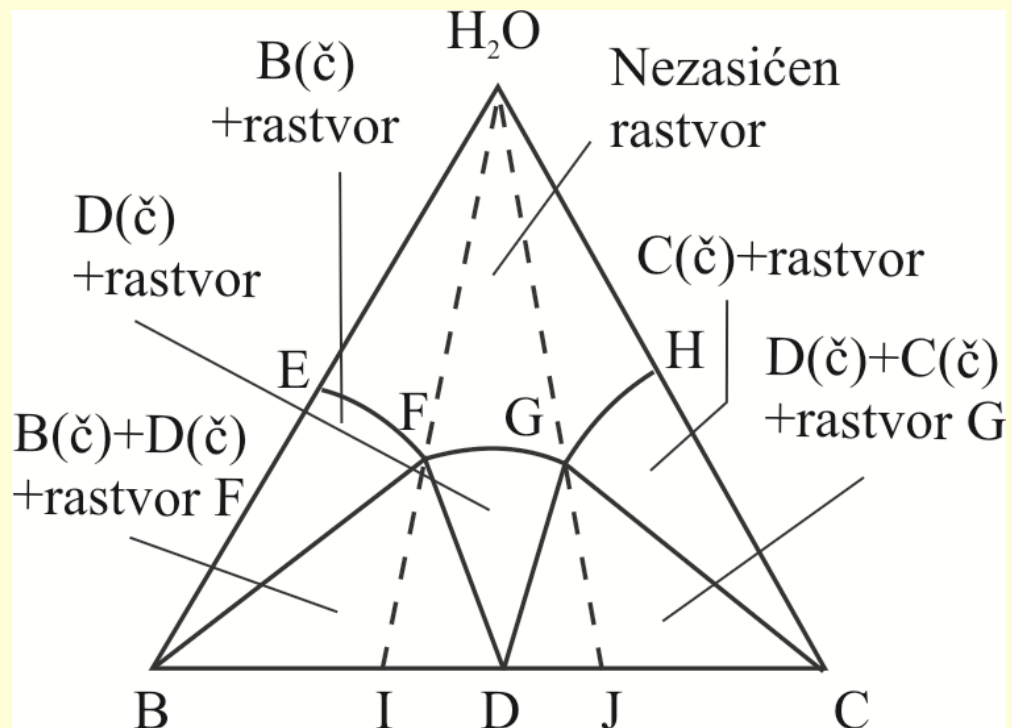


# Stvaranje binarnih jedinjenja – primer 2

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# Stvaranje binarnih jedinjenja – primer 3

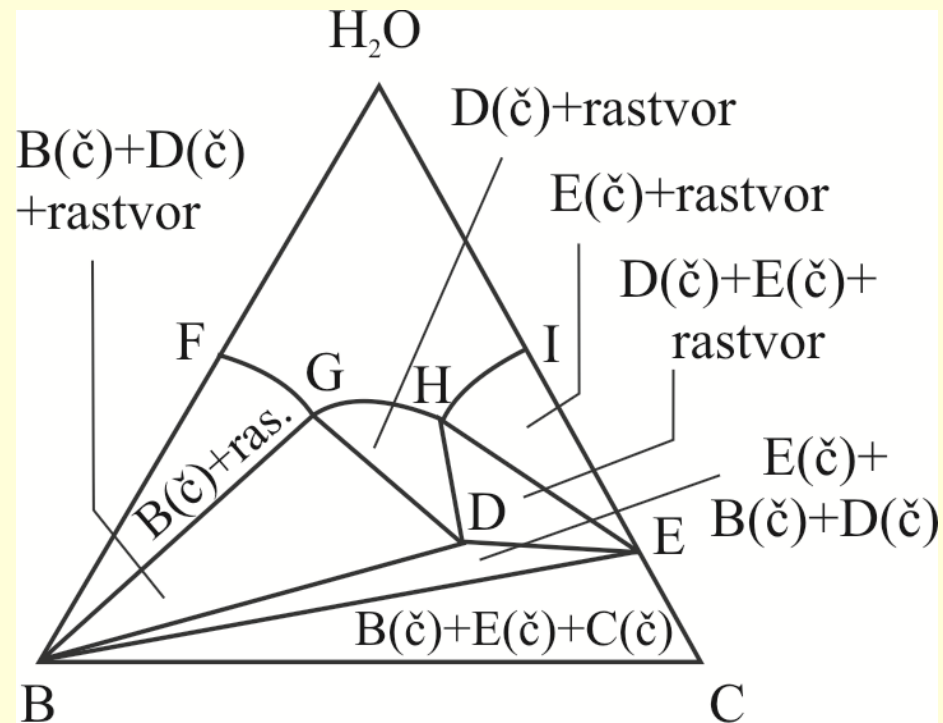


# Trokomponentni sistemi

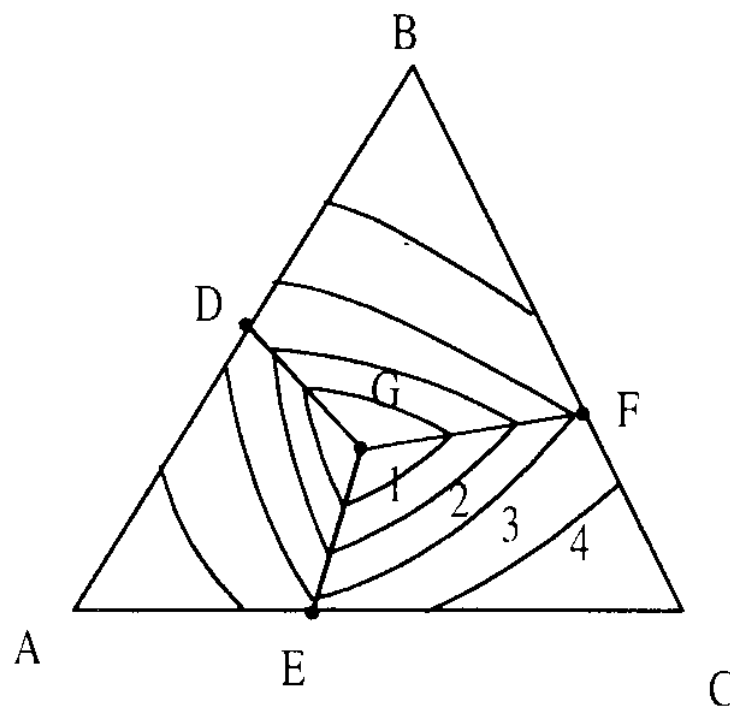
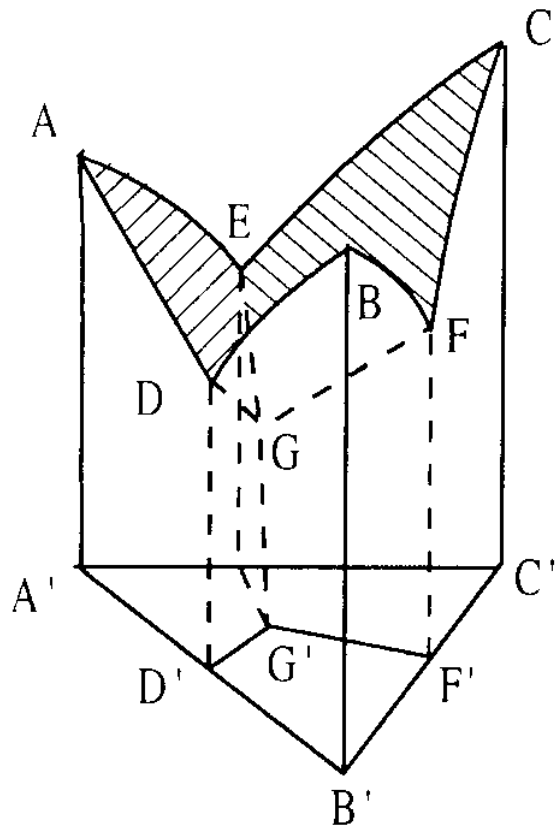
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1. Komponente potpuno mešljive u tečnom stanju
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# Stvaranje ternernih jedinjenja



# Prostorni dijagram

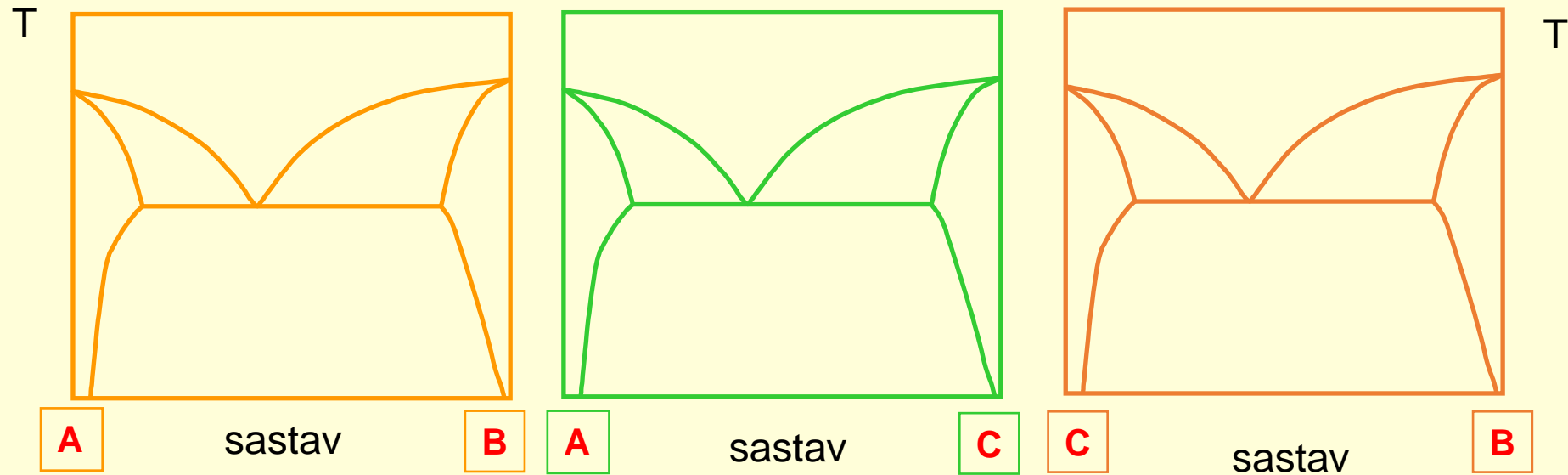


G – ternerna eutektička tačka



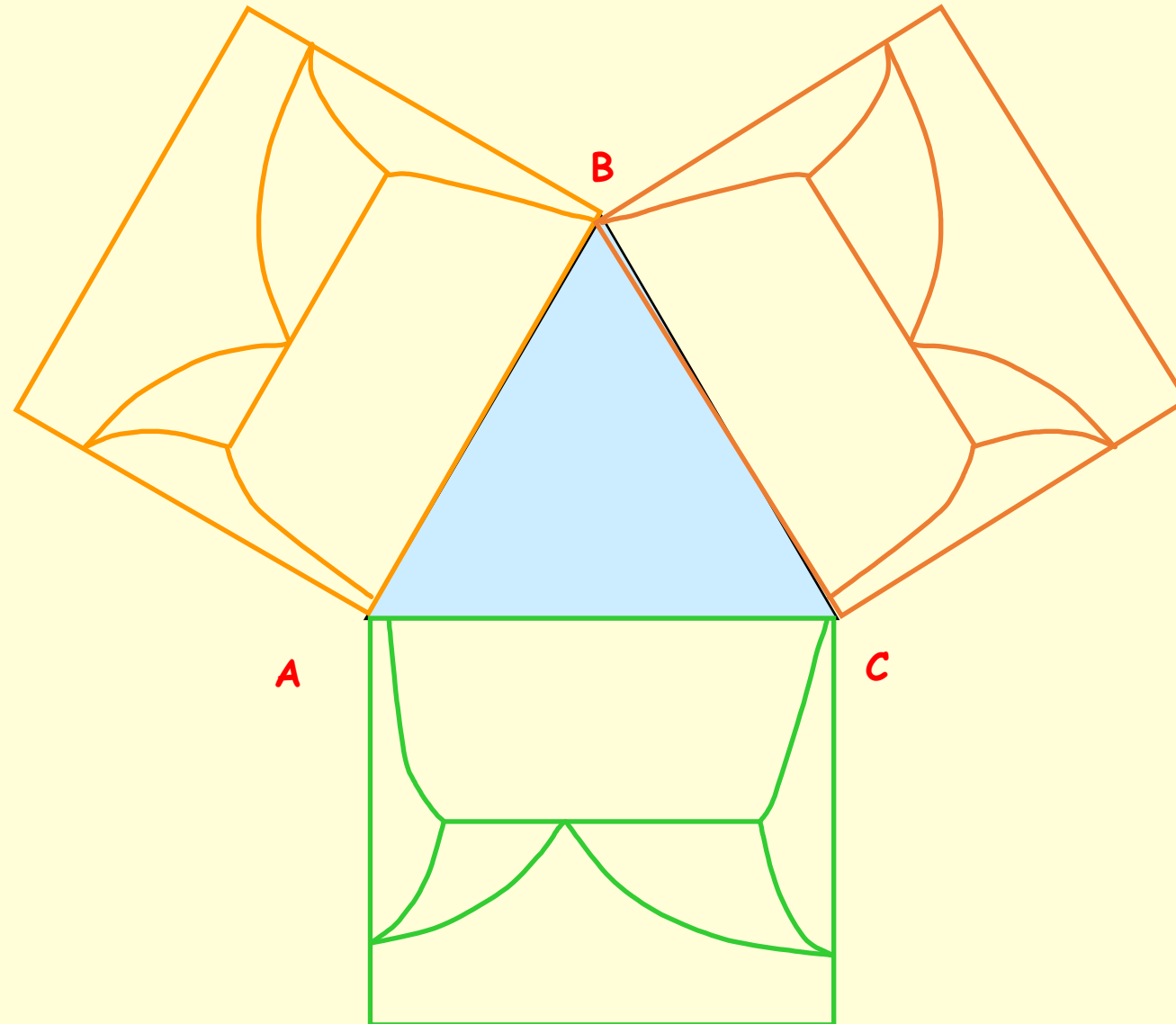
# Konstrukcija prostornog dijagrama

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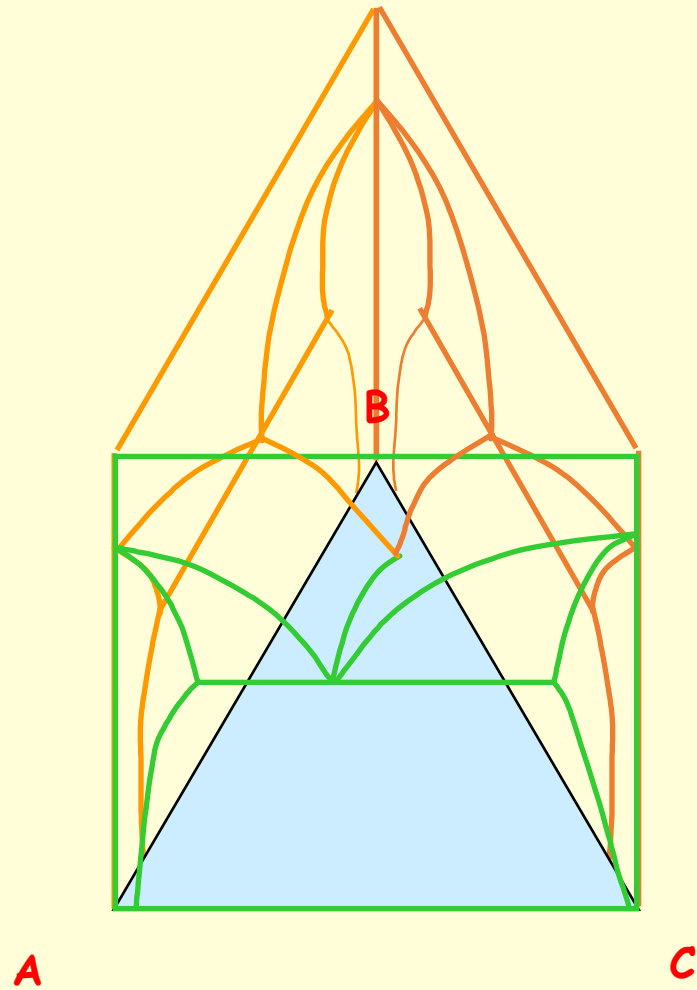
# Konstrukcija prostornog dijagrama

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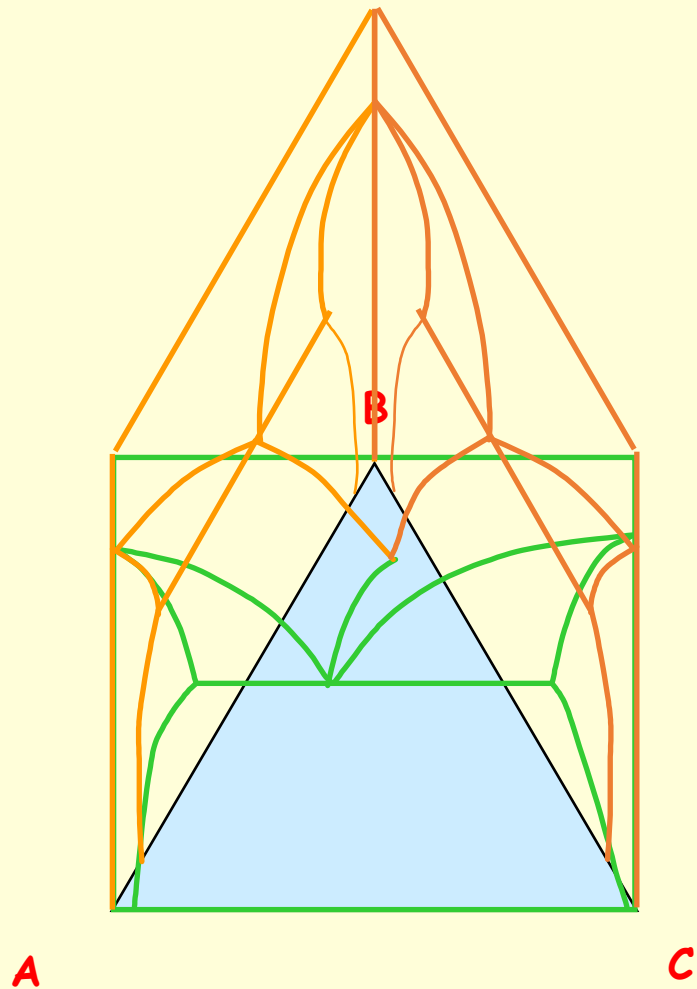
# Konstrukcija prostornog dijagrama

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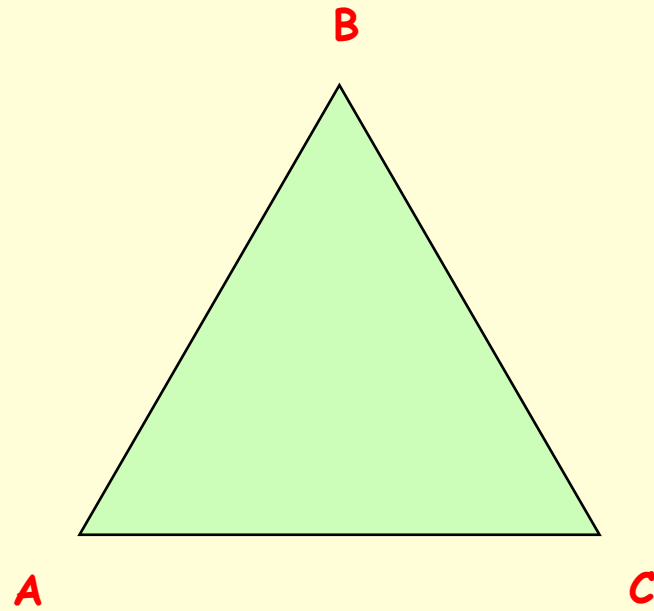
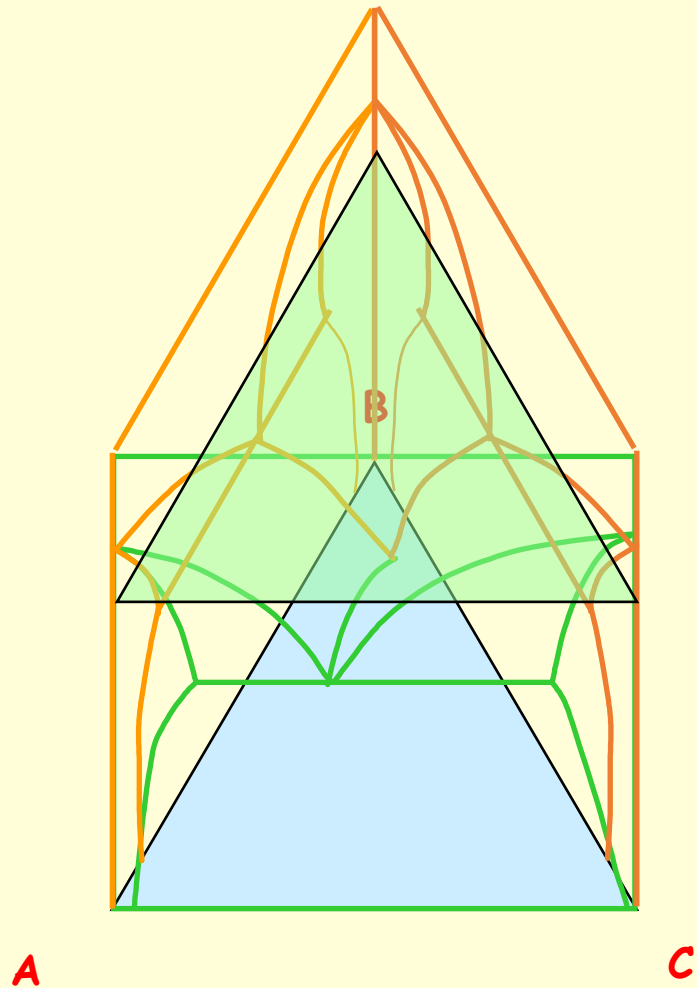
# Konstrukcija prostornog dijagrama

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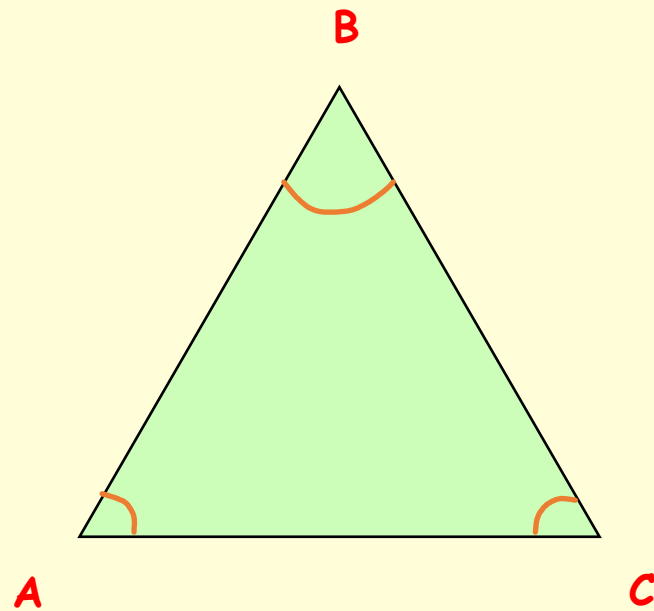
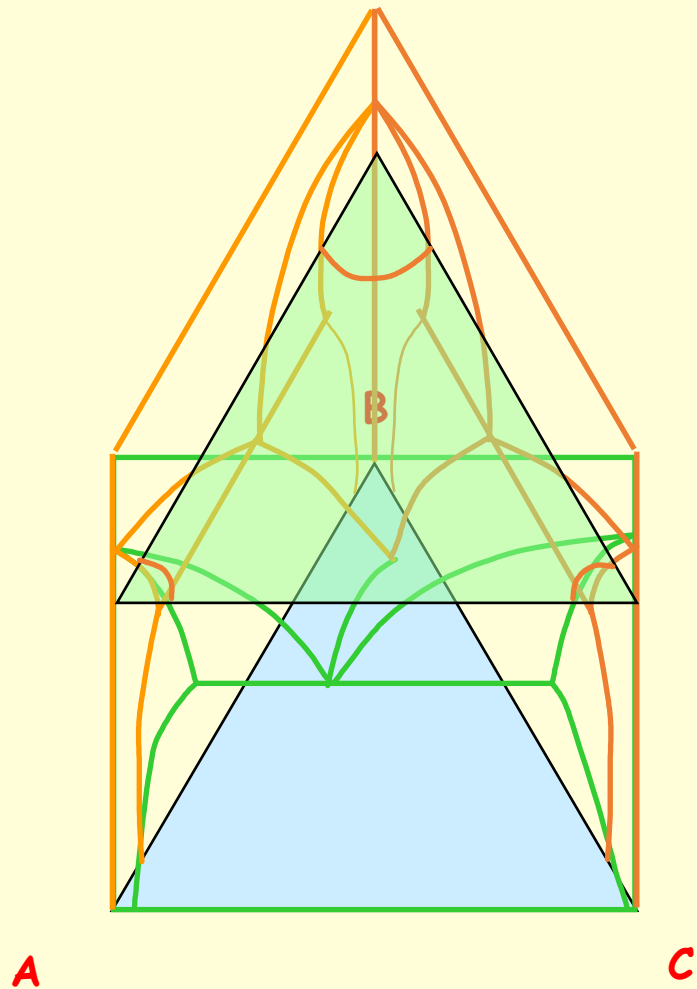
# Konstrukcija prostornog dijagrama

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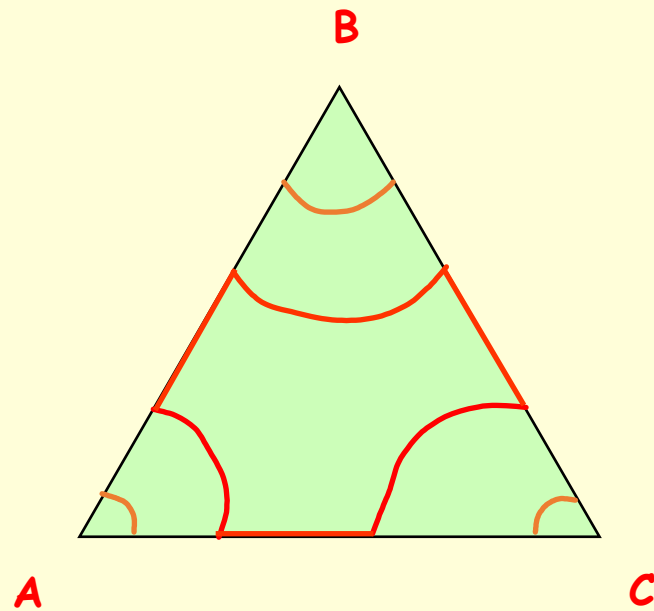
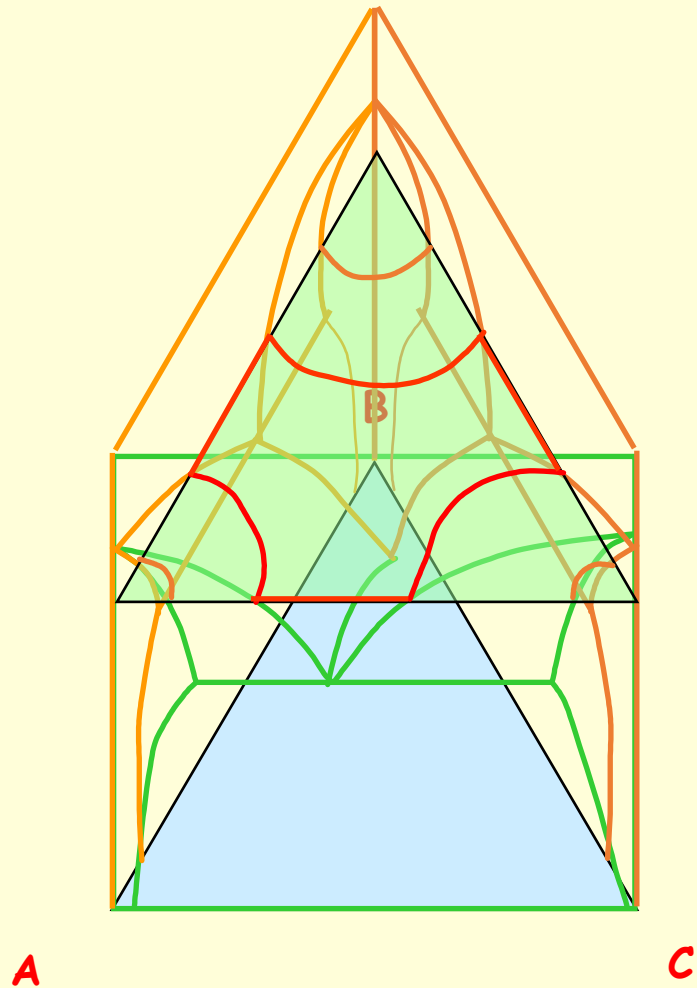
# Konstrukcija prostornog dijagrama

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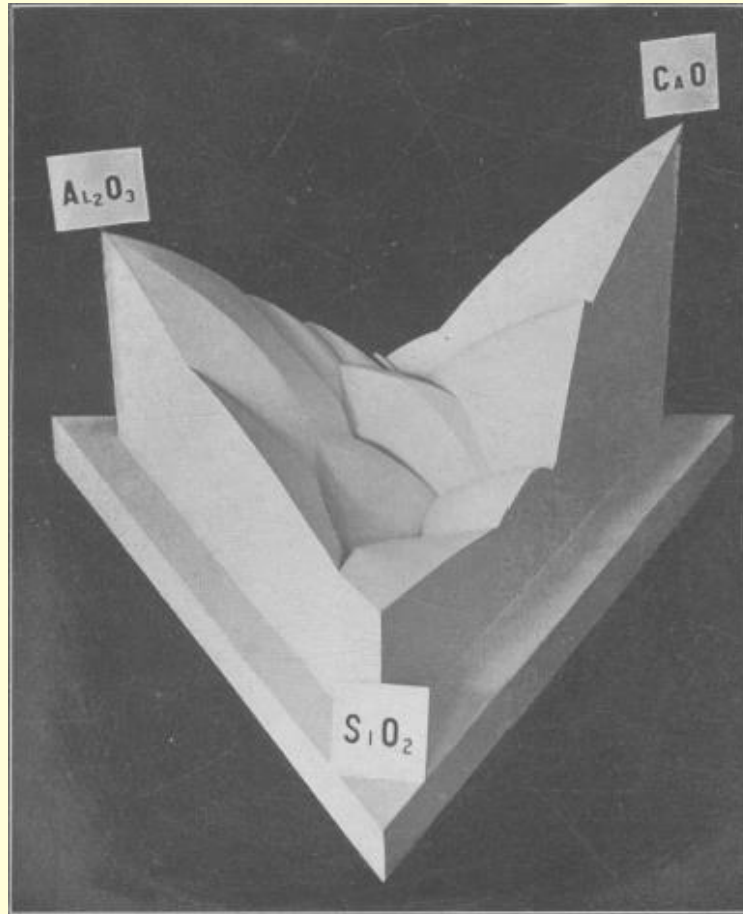
# Konstrukcija prostornog dijagrama

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# Primer: $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$

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# Primer: CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>

