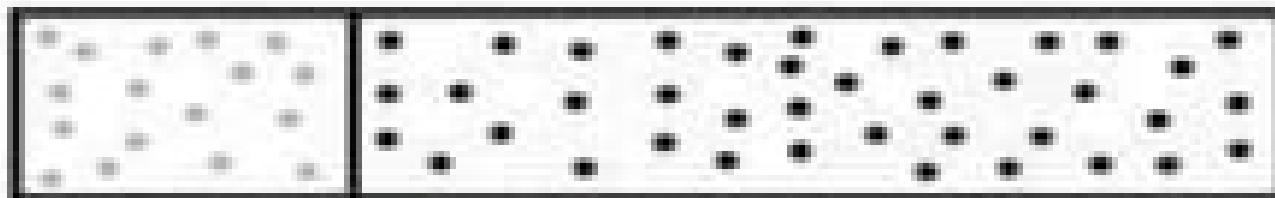


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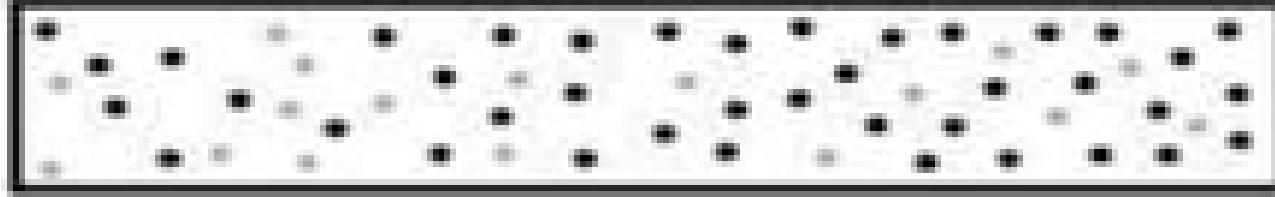
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On the History of Solid-state Diffusion Cornelis Tuijn, L.

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web circuit diagram for flashing led with pic16f877a design this circuit in proteus connect the pins with the source ground and oscillator as explained in the pin description section connect 8mhz oscillator with osc1 and osc2 through two 22 pico farad capacitors provide 5 volt to reset pin through 10k ohm resistor