

**Yarımkəçiricilər fizikası fənnindən imtahan
SUALLARI**

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2. Compound Semiconductors
3. Bond model of electron and holes
4. Electrons and holes in semiconductors
5. Chemical bond
6. Covalent bond
7. Ionic bonding
8. Metallic bonding
9. Crystal systems
10. Crystal structure
11. Lattice Structures
12. Crystal plane
13. Miller Indices
14. Bravais Lattice
15. Reciprocal lattice
16. The Laue condition
17. The Ewald sphere
18. X-ray diffraction on crystalline structures. Bragg's law
19. The Ewald sphere
20. The Brillouin zone
21. Schrödinger equation
22. Bloch theorem.
23. Weak potential
24. Kronig-Penney model
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26. The tight-binding approximation
27. Valence band and conduction band
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32. Fermi level
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34. General theory of n and p
35. Charge neutrality
36. Intrinsic Defects in Semiconductors. Point Defects
37. Line Defects
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39. Theory of electrical conduction
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44. Generation/recombination centers
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54. Direct and indirect the interband transition
55. Photoconductive cells.
56. Photoconductivity. Photoconductor
57. The photovoltaic Effect
58. Solar cell
59. Parameters of Solar cell
60. The Dember effect

Tartib etdi:

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 - Density of states in energy bands
 - Lattice Structures

 - Hall effect
 - Effective mass of the electron in a crystal

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