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1	metals, insulators, and semiconductors
2	intrinsic and extrinsic semiconductors
3	n-type and p-type semiconductors
4	elemental semiconductors
5	Families of compound semiconductors
6	direct and indirect gap semiconductors
7	The contact potential
8	The effective mass tensor
9	The density of states
10	The Fermi level in semiconductors
11	The depletion layer
12	Explain how pn junction diodes work
13	Explain how pnp and npn transistors work
14	field effect transistors
15	metal-semiconductor rectifying (Schottky) contacts
16	metal-semiconductor ohmic contacts
17	semiconductor superlattices
18	Esaki's Nobel Prize and Esaki diodes
19	The BCS theory of superconductivity
20	Cooper pairs (including their size)
21	The BCS wavefunction
22	The band gap and the Fermi surface for superconductors
23	The superconducting fraction
24	The Meissner effect and the penetration depth
25	The critical fields for superconductors
26	Type I and type II superconductors
27	The Nobel Prize given to Abrikosov and the Abrikosov vortex lattice
28	First cool then apply magnetic field versus first apply magnetic field then cool
29	High-temperature superconductors
30	Superfluidity
31	The superfluid fraction
32	First cool then apply rotation versus first apply rotation then cool
33	The Nobel Prize given to Lev Landau
34	The Nobel Prize given to Tony Leggett
35	liquid helium-4
36	liquid helium-3