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This book reviews the modern state of the catalysts and photocatalysis of chemical reactions by semiconductor nanoparticles and nanoheterostructures with the main accent on the light-driven processes. A background and principles of the semiconductor nanophotocatalysis - a new trend in photochemistry dealing with the photocatalytic redox-reactions with the participation of semiconductor nanoparticles - is discussed. A general character of the fundamental principles of the nanophotocatalysts and the 'classical' photocatalysis by microcrystalline semiconductors is combined with prominent differences originating from the spatial exciton confinement typical for ultra-small semiconductor nanoparticles.