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Sommario/riassunto	This book contains a selection of lectures from the first Summer School organized by the Center for Functional Nanostructures (CFN) at the University of Karlsruhe. The mission of the CFN is to carry out research in the following areas: nanophotonics, nanoelectronics, molecular nanostructures and nanostructured materials. The aim of the summer schools is mainly to exchange new ideas and illustrate emerging research methodologies through a series of lectures. This is reflected by both the selection of topics addressed in the present volume as well as the tutorial aspect of the contributions.