

Alternative Lithography: Unleashing the Potentials of Nanotechnology (Nanostructure Science and Technology)



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Good old Gutenberg could not have imagined that his revolutionary printing concept which so greatly contributed to dissemination of knowledge and thus today 's wealth, would have been a source of inspiration five hundred years later. Now, it seems intuitive that a simple way to produce a large number of replicates is using a mold to emboss pattern you need, but at the nanoscale nothing is simple: the devil is in the detail. And this book is about the "devil". In the following 17 chapters, the authors-all of them well recognized and active actors in this emerging field-describe the state-of-the-art, today 's technological bottlenecks and the prospects for micro-contact printing and nanoimprint lithography. Many results of this book originate from projects funded by the European Com mission through its "Nanotechnology Information Devices" (NID) initiative. NID was launched with the objective to develop nanoscale devices for the time when the red brick scenario of the ITRS roadmap would be reached. It became soon clear however, that there was no point to investigate only alternative devices to CMOS, but what was really needed was an integrated approach that took into account more facets of this difficult undertaking. Technologically speaking , this meant to have a coherent strategy to develop novel devices, nanofabrication tools and circuit & system architectures at the same time.

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