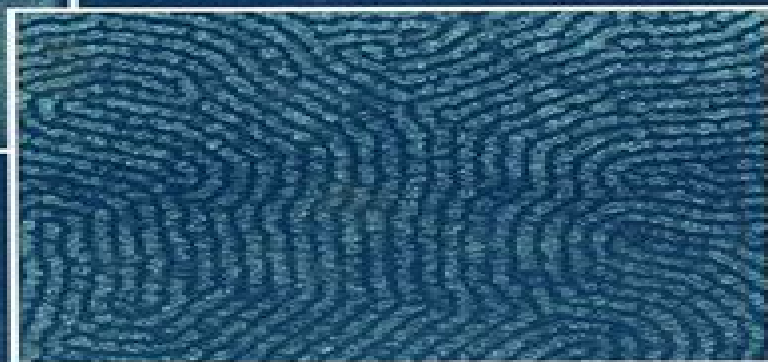
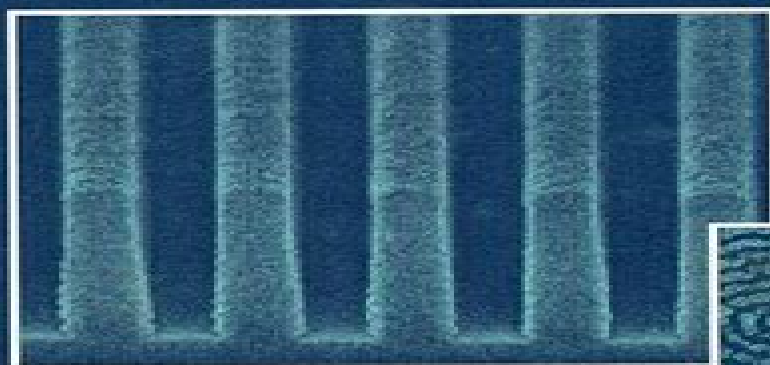


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Micro- and Nanopatterning Polymers



EDITED BY
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LIGA and its Applications Volker Saile,Ulrike Wallrabe,Osamu Tabata,Jan G. Korvink,2009-01-07 Covering technological aspects as well as the suitability and applicability of various kinds of uses this handbook shows optimization strategies techniques and assembly pathways to achieve the combination of complex even three dimensional structures with simple manufacturing steps The authors provide information on markets commercialization opportunities and aspects of mass or large scale production as well as design tools experimental techniques novel materials and ideas for future improvements Not only do they weigh up cost versus quantity they also consider CMOS and LIGA strategies Of interest to physicists electronics engineers materials scientists institutional and industrial libraries as well as graduate students of the relevant disciplines

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spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers Biointerfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world

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web automatic transmission fluid is a critical component of any automatic transmission also referred to as atf this fluid ensures proper operation performance and protection of the automatic transmission critical areas of performance include the following