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The field of semiconductor device fabrication has experienced major advances, as a result of the increasing density of highly integrated electronic devices. In particular, this progress has stemmed from an increasing level of confidence that the devices will not fail due to the absence of a specific defect. However, there are many more reliable ways to fabricate electronic devices than micromachining using reactive ion etching or by ion implantation of dopants. Inorganic semiconductor films and devices are described. New strategies for achieving film-by-film electrochemical fabrication. The effects of the larger scale processes, such as film growth and patterning are discussed. For this chapter I will discuss the fabrication of compound semiconductor devices, in particular the fabrication of active devices such as diodes and transistors. In the first part of the chapter, I will cover the subject of substrate growth and device fabrication. I will also cover the experimental strategy for measuring the characteristics of the new devices. The theory of ion implantation, metal and semiconductor growth will be treated in the subsequent chapters. Recent developments on conjugated polymer based photovoltaic diodes and photoactive organic field effect transistors (photOFETs) are discussed. The photophysics of such devices is based on the photoinduced charge transfer from donor type semiconducting conjugated polymers onto acceptor type conjugated polymers or acceptor molecules such as Buckminsterfullerene, C 6 0. Potentially interesting applications include sensitization of the photoconductivity and photovoltaic phenomena as well as photoresponsive organic field effect transistors (photOFETs). Furthermore, organic polymeric/inorganic nanoparticle based 'hybrid' solar cells will be discussed. This talk gives an overview of materials' aspect, charge-transport, and device physics of organic diodes and field-effect transistors. Furthermore, due to the compatibility of carbon/hydrogen based organic semiconductors with organic biomolecules and living cells there can be a great opportunity to integrate such organic semiconductor devices (biOFETs) with the living organisms. In general the largely independent bio/lifesciences and information technology of today, can be thus bridged in an advanced cybernetic approach using organic semiconductor devices embedded in bio-lifesciences. This field of bio-organic electronic devices is proposed to be an important mission of organic semiconductor devices 5ec8ef588b