

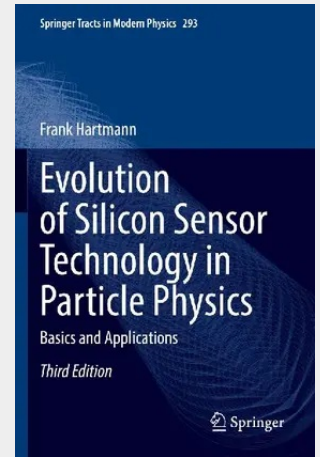
Evolution of Silicon Sensor Technology in Particle Physics

Basics and Applications

This third edition of a well-received monograph provides a comprehensive overview of the state-of-the-art of detectors and their evolution. In addition to the silicon sensor technology described in the second edition, the book covers the following new topics: precise timing detectors (3D sensors and sensors with intrinsic gain layers), passive CMOS sensors, new developments in HV-CMOS sensors, and sparking in strip and pixel detectors. The chapter on the HL-LHC CMS upgrades has been updated, and the historical overview has been enriched with a section on the UA2 SPD pad detector system.

The book includes a wealth of schematics and photos of detectors. It is also valuable for detector courses at the master/PhD level.

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