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CMOS Imagers: From Phototransduction to Image Processing contains six contributed chapters. The first three detail the basic concepts of photo transduction, modeling, evaluation, and optimization of APS.

**CMOS Imagers: From Phototransduction to Image Processing ...**  
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Two examples of CMOS imagers are presented, a smart vision system-on-a-chip and a smart tracking sensor. The former is based on a photodiode APS with linear output over a wide dynamic range, made possible by random access to each pixel and by the insertion of additional circuitry into the pixels.

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The arrival of high-resolution solid state imaging devices, primarily charge-coupled devices (CCDs) and complementary metal oxide semiconductor (CMOS) image sensors, has heralded a new era for optical microscopy that threatens to eclipse traditional image recording technology, such as film, video tubes, and photomultipliers.