

Solid-State Imaging with Charge-Coupled Devices

by

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Solid State Imaging

Marjorie Costello, Michael Heiss



Solid State Imaging:

Solid-State Imaging with Charge-Coupled Devices A.J. Theuwissen,1995-03-31 Solid State Imaging with Charge Coupled Devices covers the complete imaging chain from the CCD s fundamentals to the applications The book is divided into four main parts the first deals with the basics of the charge coupled devices in general The second explains the imaging concepts in close relation to the classical television application Part three goes into detail on new developments in the solid state imaging world light sensitivity noise device architectures and part four rounds off the discussion with a variety of applications and the imager technology The book is a reference work intended for all who deal with one or more aspects of solid state imaging the educational scientific and industrial world Graduates undergraduates engineers and technicians interested in the physics of solid state imagers will find the answers to their imaging questions Since each chapter concludes with a short section Worth Memorizing reading this short summary allows readers to continue their reading without missing the main message from the previous section Solid State Imaging P. Jespers,F. van de Wiele,M.H. White,1976-05-31 An Advanced Study Institute on solid state imaging was held in Louvain la Neuve Belgium on September 3 12 1975 under the auspices of the Scientific Affairs Division of NATO The Institute was organized by a scientific organizing committee consisting of Professor Paul Jespers and Professor Fernand Van de Wiele of the Universite Catholique de Louvain and Dr Marvin H White of the Westinghouse Electric Corporation This book represents the con tributions of the lecturers at the Institute and the chapters pre sert for the first time a concise treatment of a very timely subject namely solid state imaging The organization of the book parallels the program at the Institute with an introduction r omprised of historical development and applications This is f0 lowed by the physics of photosensors which leads quite naturally into the various solid state photosensor arrays The subject of signal extraction which is often an overlooked area follows and the last part of the book is devoted to the various system s con siderations The subject matter of this book is suitable for a Wide range of interests from the advanced student through the practicing physcist and engineer to the research worker Although a novice may find some difficulty with the mathematical development he can acquire a perspective into the field of solid state imaging with this book Likewise portions of this book may be used as a text book since he chapters are instructional and self contained

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The Status, Development and

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August 23-24, 1977, San Diego, California Jim Campbell,1977 *SMPTE Journal* ,1987 *Galileo Solid State Imaging (SSI) Team: Education and Public Outreach* , Features information regarding the imaging camera aboard the Galileo spacecraft mission of the U S National Aeronautics and Space Administration NASA to Jupiter launched on October 18 1989

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