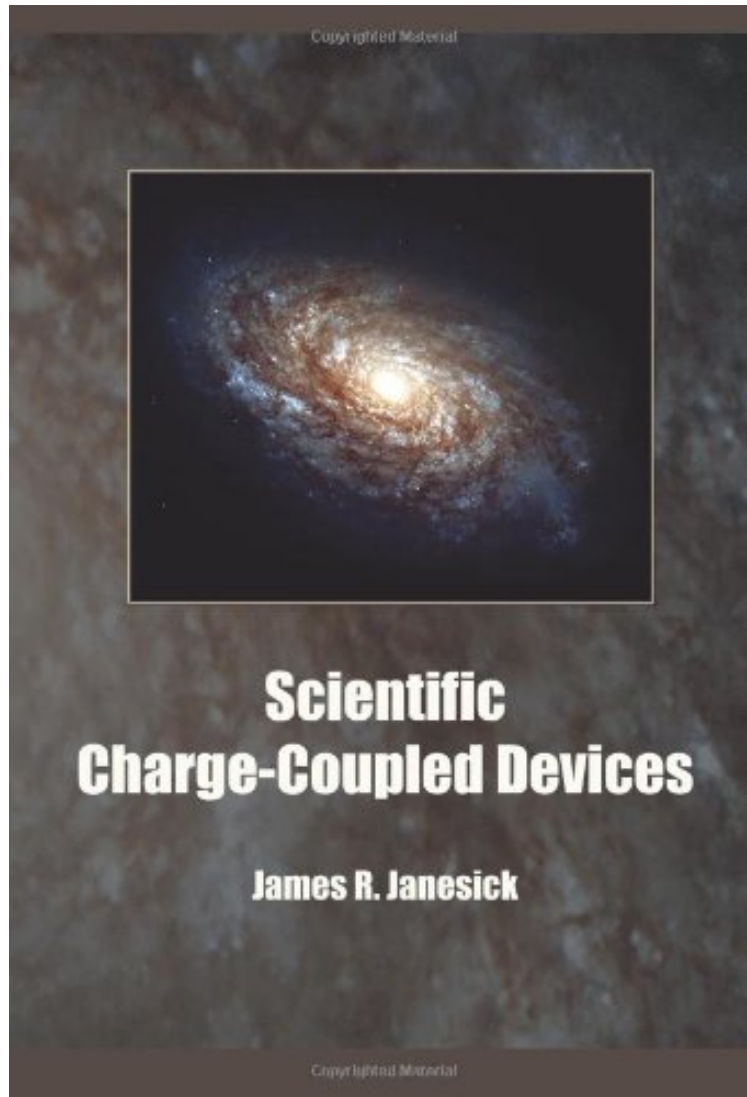


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Scientific Charge-Coupled Devices (SPIE Press Monograph Vol. PM83)

James R. Janesick

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The invention of the charge-coupled device 30 years ago was the beginning of a remarkable image capture technology that has changed the course of imaging in fields ranging from astronomy to biotechnology. This book presents a comprehensive history, tutorial, and state-of-the-art description of CCDs and is intended for scientists, engineers, imaging hardware managers, and graduate students. Contents - Preface - History, Operation, Performance, Design, Fabrication and Theory - CCD Transfer Curves and Optimization - Charge Generation - Charge Collection - Charge Transfer - Charge Measurement - Noise Sources - Damage - Appendices - Glossary of CCD Terms - Index

About the Author James R. Janesick has written more than 75 publications on CCDs, including many NASA Tech Briefs, and holds 12 patents for various CCD innovations. During his 22 years at the Jet Propulsion Laboratory, he focused on scientific CCDs and support electronics used in many NASA spaceborne imaging systems, including the Hubble Space Telescope and the Galileo and Cassini projects. Janesick received NASA medals for Exceptional Engineering Achievement in 1982 and 1992.