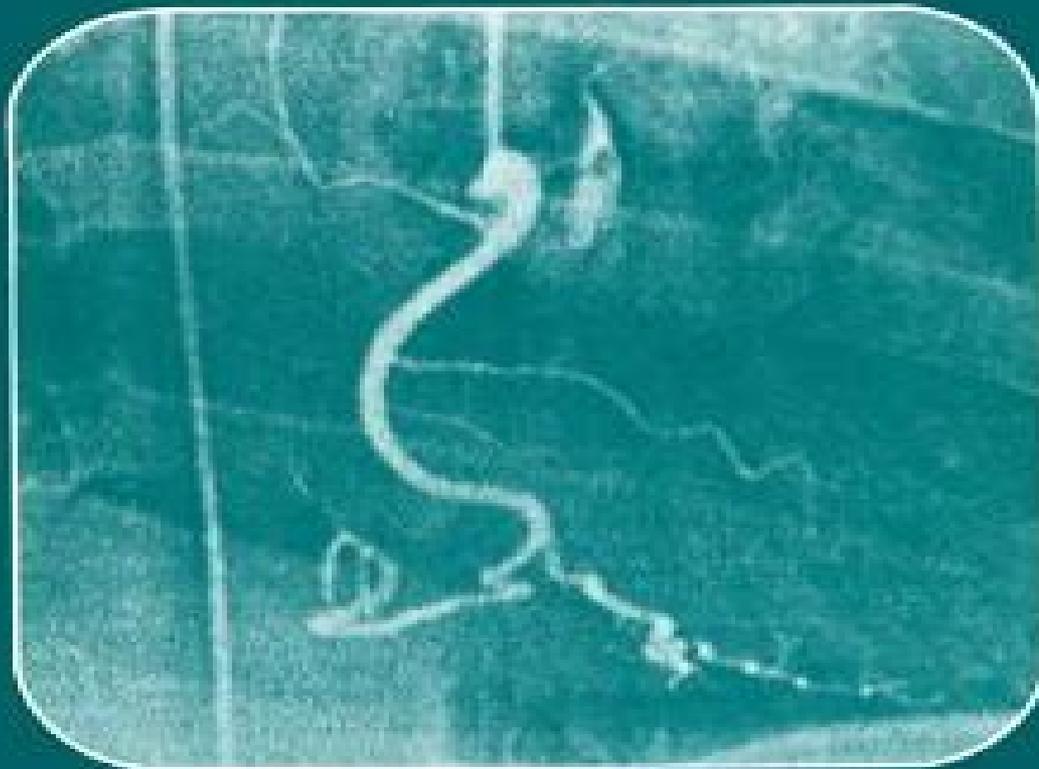


# *Digital Radiography Selected Topics*



*Edited by*

*James G. Kereiakes,  
Stephen R. Thomas, and Colin G. Orton*

# Digital Radiography Selected Topics

**David C. Wilson, Joseph N. Wilson**



## Digital Radiography Selected Topics:

**Digital Radiography** J.G. Kereiakes, C.G. Orton, S.R. Thomas, 2012-12-06 Digital radiography is a general term describing any projection radiological system in which the image exists in digital form at some stage between acquisition and viewing In an earlier form radiographic films were digitized in an attempt to enhance and redisplay information of interest The field has evolved to its current state in which X ray signals are detected electronically converted to digital form and processed prior to being recorded and displayed A primary goal of digital radiography is the removal of interfering effects from secondary structures in an image so that clinically significant details can be displayed with enhanced visibility The achievement of this goal involves many parameters including contrast agents subtraction techniques processing techniques filtering techniques system noise and quantitative aspects It is the purpose of this book to present material by noted individuals in the field covering several of the above topics The authors acknowledge the secretarial and editorial assistance of Mrs Helen Taylor and the editorial assistance of Mrs Ruth McDevitt James G Kereiakes Stephen R Thomas Cincinnati Ohio Colin G Orton Detroit Michigan ix Contents 1 DIGITAL RADIOGRAPHY OVERVIEW B A Arnold 1 G Kereiakes and S R Thomas 1 Introduction 1 2 Point Scanned Detector Systems 3 3 Line Scanned Detector Systems 4 4 Area Detector Systems 5 4 1 Stimulable Phosphors 5 4 2 Selenium Detectors Current Bibliographies in Medicine, 1988 **Telemedicine** DIANE Publishing Company, 1995-07 THE STORY In August of 1937 in a small town in eastern North Carolina we meet the Avery family Roma Avery is the widowed matriarch who still maintains a hold on her recently married son Neal He and his wife Taw a former school teacher rent a room The Engineering Index Bioengineering Abstracts, 1987 Monthly Covers the world's technological literature in biomedical engineering and technology Alphabetical subject arrangement Entries give bibliographical information abstract and author's affiliation No name index College of Engineering University of Michigan. College of Engineering, 1995 IMTC/99 Vincenzo Piuri, Mario Savino, 1999 National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), Selected Topics in Image Science O. Nalcioğlu, Z.-H. Cho, 1984-03-01 The continuing growth of computed tomography CT and other imaging techniques motivated us to bring together a comprehensive review of the state of the art in diagnostic imaging Twelve years after the first appearance of x ray CT computerized diagnostic imaging has grown so rapidly in sophistication that it is difficult to follow current developments in this diversified field In this book we have attempted to cover the basic developments in several areas The first part includes some of the fundamental aspects of computerized diagnostic imaging such as algorithms and detectors Specific applications in emission tomography digital radiography ultrasound and nuclear magnetic resonance imaging are dealt with in the second part The contributed papers are by experts currently in the field whom we feel would certainly enlighten the subject matter and possibly suggest directions for future development We would like to express our sincere thanks to those who have contributed to this volume We are sure that their original papers will be beneficial for readers and will also remain

as an important reference for researchers in the years to come We would also like to thank Betty Trent for her expert and patient typing of the entire book Finally special thanks are due to Mrs Ingeborg Mayer of Springer Verlag for her encouragements support and patience throughout the preparation of this book

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