



UNIVERSIDAD NACIONAL DE ENTRE RÍOS
FACULTAD DE INGENIERIA
CENTRO DE MEDIOS
BIBLIOTECA

Nº 1 399

CONTENTS

Contributors	xi
Preface	xv
Acknowledgments	xvi
1 Acquisition and Processing—Two-Dimensional Studies	1
Michael J. Gelfand	
Stephen R. Thomas	
2 Single Photon Emission Computed Tomography	31
Bernard E. Oppenheim	
C. Robert Appledorn	
3 Thallium-201—Two-Dimensional Imaging	75
Myron C. Gerson	
4 Thallium-201 and Technetium-99m-Pyrophosphate— Single Photon Emission Computed Tomography	109
William J. MacIntyre	
Raymundo T. Go	
James K. O'Donnell	
David H.I. Feiglin	
Thomas S. Houser	
Bruno J. Sufka	
Gopal B. Saha	
5 Equilibrium Gated Blood Pool Imaging at Rest and during Exercise	136
Christiaan Schiepers	
John J. Almasi	

6	Functional (Parametric) Imaging of Dynamic Cardiac Studies	161
	Dan G. Pavel Jerry J. Sychra Enrique Olea	
7	First-Pass Measurement of Ejection Fraction	206
	Michael J. Gelfand	
8	Cardiac Output and Transit Times	228
	Edwin C. Glass	
9	Ventricular Volume and Stroke Volume Ratios	248
	Michael J. Gelfand Laurence W. Grossman	
10	Left-to-Right Shunts	271
	Michael J. Gelfand David W. Hannon	
11	Right-to-Left Shunts	288
	Gary F. Gates	
12	Brain SPECT—Abnormalities of the Blood-Brain Barrier and Cisternography	301
	Nat E. Watson, Jr. Rodney C. Williams Robert J. Cowan	
13	Brain SPECT—Regional Cerebral Blood Flow, Physiology, and Pathophysiology	309
	Michael J. Gelfand Thomas G. Brott Jun-Wen Chen	
14	Glomerular Filtration Rate, Renal Transit Times, Effective Renal Plasma Flow, and Differential Renal Function	348
	Eva V. Dubovsky Michael V. Yester	
15	Diuretic Radionuclide Urography and Captopril Studies	384
	Michael J. Gelfand Donald W. Trepashko	

16	Nuclear Cystography Michael J. Gelfand	402
17	Gastric Emptying, Gastroesophageal Reflux, and Esophageal Motility Sydney Heyman	412
18	Single Photon Emission Computed Tomography of the Liver and Spleen Barbara Y. Croft	438
19	Quantitative Hepatobiliary Studies Darlene Fink-Bennett	453
20	Techniques for Quantitation of In Vivo Radioactivity Stephen R. Thomas Harry R. Maxon III James G. Kereiakes	468
21	Parathyroid Imaging Harry R. Maxon III Abdelhamid H. Elgazzar	485
22	Evaluation of Skin Perfusion Edward B. Silberstein	497
23	Single- and Dual-Photon Absorptiometry Richard B. Mazess	503
24	Quantitative Scintigraphy of Bone Growth, Bone Ischemia, and the Sacroiliac Joints H. Theodore Harcke	520
25	Single Photon Emission Computed Tomography— Bone and Gallium Richard R. Black Michael J. Gelfand	535
26	Quantitative Methods in Lung Imaging Bruce R. Line	551
	Color Plates 1–31	
	Index	591