## Contents

Chapter 1	r .	
he Neurophysiology of Pain		
Pain Receptors	1	
Pain Nerves	1	
Dermatomes and Myotomes	3	
Transmission in the Spinal Cord	3	
Ascending Pathways	7	
Pain from Different Organ Systems	8	
Pain from the Skin and Superficial Tissues	9	
Deep Somatic Pain	9	
Visceral Pain	9	
	2	
	2	
, e	.2	
1		
	4	
Neurohumoral Mechanisms	.4	
Chapter 2		
Transcutaneous Electrical Nerve Stimulation		
Introduction	.7	
General Principles for the Use of TENS	7	
	9	
	20	
	1	
	4	
	:5	
	26	
	9	



VIII Contents

Chapter 3
TENS in Different Pain Syndromes
Post-operative Pain
Neck and Shoulder Pain
Low Back Pain
Arthritic Pain
Pain in the Chest
Fracture Pain
Deafferentation Pain
Trigeminal Neuralgia
Central Pain
Phantom Pain
Vascular Pain
Headaches
Dental Pain
Cancer Pain
Dysmenorrhea
Labour Pain
Bladder Pain
Pancreatic Pain
Psychogenic Pain
Chapter 4
Additional Areas of Application of TENS and Different Modes
of Electrical Stimulation
2
Sports Medicine
Improvement of Muscle Function
Wound and Fracture Healing
Treatment of Venous Stasis
Pruritus
Subject Index