CONTENTS

THE	SHO	III.	DER

Physiology of the Shoulder		2
Flexion and Extension and Adduction		4
Abduction	ETATION PRONATION AND SUP	6
Axial Rotation of the Arm		8
Movements of the Shoulder Girdle in the Horizontal Plan	e maintain	8
Horizontal Flexion and Extension	D noisearang-nonanon'i ir zelenininala ar	10
The Movement of Circumduction	Security Stanford Relationships	12
C 1 , (D 1)	Scottes Administration Superior Radio	14
Overtitation of Chaulden Marramenta	exchang Anacomy of the Inferior Rudio	16
Movements for Assessing the Overall Function of the Sho	oulder and the programme the programme land	18
The Multiputionless Commission of the Chaulden		20
The Articular Surfaces of the Shoulder Joint	or of the more mituely mountained local 2	22
Instantaneous Centres of Rotation	one Two Karlin sliwer Joints Are Co cone	24
The Capsule and Ligaments of the Shoulder	- pointening bue pointened to establish	26
The Intra-articular Course of the Biceps Tendon	2	28
The Role of the Gleno-Humeral Ligament	ateanagement in the contract of the maintenagement	30
The Coraco-Humeral Ligament in Flexion and Extension	213	32
Coaptation of the Articular Surfaces by the Periarticular M	Muscles	34
The Subdeltoid 'Joint'	3	36
The Scapulo-Thoracic 'Joint'	Enificance	38
Movements of the Shoulder Girdle	overnents of the Wrist	40
The Real Movements of the Scapulo-Thoracic 'Joint'		12
The Sterno-Clavicular Joint: The Articular Surfaces		44
The Movements	The Articular Complex of the Wrist	46
The Acromio-Clavicular Joint		48
The Role of the Coraco-Clavicular Ligaments	ese ligaments of the Radio-Carpal and Mi	52
Motor Muscles of the Shoulder Girdle	he Stabilising Function of the Ligaments	54
The Supraspinatus and Abduction	tic Dynamics of the Carpus	56
The Physiology of Abduction	ie Scaphoid-Lunaue Couple	60
The Three Phases of Abduction	he Geometrically Variable Carpus	54
The Three Phases of Flexion	onormal Movements	66
Rotator Muscles of the Arm	se Motor Muscles of the Wrist	68
Adduction and Extension	ne Actions of the Muscles of the Wrist	70

THE ELBOW

Flexion and Extension

The Elbow: The Joint Which Allows the Hand to Be Moved Towards

or Away from the Body

The Articular Surfaces

The Distal End of the Humerus

The Ligaments of the Elbow

The Head of the Radius

The Trochlea Humeri

The Limitations of Flexion and Extension

Flexor Muscles of the Elbow

Extensor Muscles of the Elbow

Factors Ensuring Coaptation of the Articular Surfaces

The Range of Movements of the Elbow

Position of Function and Position of Immobilisation

ROTATION (PRONATION AND SUPINATION)

Significance

Definitions

The Usefulness of Pronation-Supination (Rotation)

General Anatomical Relationships

Functional Anatomy of the Superior Radio-Ulnar Joint

Functional Anatomy of the Inferior Radio-Ulnar Joint

Dynamics of the Superior Radio-Ulnar Joint

Dynamics of the Inferior Radio-Ulnar Joint

Axis of Pronation-Supination

The Two Radio-Ulnar Joints Are Co-congruent

Muscles of Pronation and Supination

Mechanical Disturbances of Pronation-Supination

The Position of Function and Compensatory Movements

THE WRIST

Significance

Movements of the Wrist

Range of Movements of the Wrist

The Movement of Circumduction

The Articular Complex of the Wrist

The Articular Surfaces of the Radio-Carpal and Mid-Carpal Joints

The ligaments of the Radio-Carpal and Mid-Carpal Joints

The Stabilising Function of the Ligaments

The Dynamics of the Carpus

The Scaphoid-Lunate Couple

The Geometrically Variable Carpus

Abnormal Movements

The Motor Muscles of the Wrist

The Actions of the Muscles of the Wrist

THE HAND

Its Role		164
Topography of the Hand	COR OF THE STATE OF THE	166
The Architecture of the Hand	4	168
The Carpal Bones		172
The Hollowing of the Palm	是"我们是可以为一种。" 第一章	174
The Metacarpo-Phalangeal Joints	WITH MILE SERVICE	176
The Ligaments of the Metacarpo-Phalangeal Joints	gradus of spiles &	180
The Range of Movements of the Metacarpo-Phalangeal Joints	Committees	184
The Interphalangeal Joints	The second section is the second	186
The Tunnels and Synovial Sheaths of the Flexor Tendons		190
The Tendons of the Long Flexors of the Fingers		192
The Tendons of the Extensor Muscles of the Fingers		196
The Interosseous and Lumbrical Muscles		198
Extension of the Fingers		200
Abnormal Positions of the Hand and Fingers		204
The Muscles of the Hypothenar Eminence	The state of the s	206
The Thumb		208
The Geometry of Opposition of the Thumb		210
The Trapezo-Metacarpal Joint		212
The Metacarpo-Phalangeal Joint of the Thumb		228
The Interphalangeal Joint of the Thumb		236
The Motor Muscles of the Thumb		238
The Action of the Extrinsic Muscles of the Thumb		242
The Action of the Intrinsic Muscles of the Thumb		244
Opposition of the Thumb	the second of the second of the second	248
Opposition and Counteropposition		254
The Modes of Prehension		256
Percussion — Contact — Gestures		274
Positions of Function and Immobilisation	The Automotive State of the	276
Fictional Hands		278
The Human Hand		280
		200
REFERENCES		202