TABLE 4.1 Anthropometric Data

		Segment Weight/Total	Center of Segmen	Center of Mass/ Segment Length	Radi Seg	Radius of Gyration/ Segment Length	ration/ ngth	
Segment	Definition	Body Weight Proximal	Proximal	Distal	C of G	C of G Proximal	Distal	Density
Hand	Wrist axis/knuckle II middle finger	0.006 M	0.506	0.494 P	0.297	0.587	0.577 M	1.16
Forearm	Elbow axis/ulnar styloid	0.016 M	0.430	0.570 P	0.303	0.526	0.647 M	1.13
Upper arm	Glenohumeral axis/elbow axis	0.028 M	0.436	0.564 P	0.322	0.542	0.645 M	1.07
Forearm and hand	Elbow axis/ulnar styloid	0.022 M	0.682	0.318 P	0.468	0.827	0.565 P	1.14
Total arm	Glenohumeral joint/ulnar styloid	0.050 M	0.530	0.470 P	0.368	0.645	0.596 P	1.11
Foot	Lateral malleolus/head metatrsal II	0.0145 M	0.50	0.50 P	0.475	0.690	0.690 P	1.10
Leg	Femoral condyles/medial malleolus	0.0465 M	0.433	0.567 P	0.302	0.528	0.643 M	1.09
Thigh	Greater trochanter/femoral condyles	0.100 M	0.433	0.567 P	0.323	0.540	$0.653 \mathrm{M}$	1.05
Foot and leg	Femoral condyles/medial malleolus	0.061 M	909.0	0.394 P	0.416	0.735	0.572 P	1.09
Total leg	Greater trochanter/medial malleolus	0.161 M	0.447	0.553 P	0.326	0.560	0.650 P	1.06
Head and neck	C7-T1 and 1st rib/ear canal	0.081 M	1.000	— PC	0.495	0.116	— PC	1.11
Shoulder mass	Sternoclavicular joint/glenohumeral axis		0.712	0.288				1.04
Thorax	C7-T1/T12-L1 and diaphragm*	0.216 PC	0.82	0.18				0.92
Abdomen	T12-L1/L4-L5*	0.139 LC	4.0	0.56				
Pelvis	L4-L5/greater trochanter*	0.142 LC	0.105	0.895				
Thorax and abdomen	C7-T1/L4-L5*	0.355 LC	0.63	0.37			I	
Abdomen and pelvis	T12-L1/greater trochanter*	0.281 PC	0.27	0.73			I	1.01
Trunk	Greater trochanter/glenohumeral joint*	0.497 M	0.50	0.50			I	1.03
Trunk head neck	Greater trochanter/glenohumeral joint*	0.578 MC	99.0	0.34 P	0.503	0.830	0.607 M	
Head, arms, and	Greater trochanter/glenohumeral joint*	0.678 MC	0.626	0.374 PC	0.496	0.798	0.621 PC	
trunk (HAI) HAT	Greater trochanter/mid rih	0.678	1 142		0.903	1 456	١	
	Organia modulante ino	0.0.0	7-1-1		0.70	001.1		

*NOTE: These segments are presented relative to the length between the greater trochanter and the glenohumeral joint.

Source Codes: M. Dempster via Miller and Nelson; Biomechanics of Sport, Lea and Febiger, Philadelphia, 1973. P. Dempster via Plagenhoef; Patterns of Human Motion, Prentice-Hall, Inc. Englewood Cliffs, NJ, 1971. L, Dempster via Plagenhoef from living subjects; Patterns of Human Motion, Prentice-Hall, Inc., Englewood Cliffs, NJ, 1971. C, Calculated.