

Table of Contents

Foreword	vii
About the Editors	ix
Acknowledgments	xiii
Estimating Review: Introduction	xvii
Division One: General Requirements	
Introduction	2
Estimating Tips	5
Division One Checklist	6
Estimating Data	3
Division Two: Existing Conditions	
Introduction	26
Estimating Tips	28
Division Two Checklist	29
Estimating Data	27
Division Three: Concrete	
Introduction	38
Estimating Tips	42
Division Three Checklist	44
Estimating Data	40
Division Four: Masonry	
Introduction	94
Estimating Tips	97
Division Four Checklist	99
Estimating Data	96
Division Five: Metals	
Introduction	136
Estimating Tips	138
Division Five Checklist	139
Estimating Data	137
Division Six: Wood, Plastics & Composites	
Introduction	190
Estimating Tips	193
Division Six Checklist	194
Estimating Data	191

Division Seven: Thermal & Moisture Protection

Introduction	244
Estimating Tips	248
Division Seven Checklist	249
Estimating Data	246

Division Eight: Openings

Introduction	286
Estimating Tips	288
Division Eight Checklist	290
Estimating Data	287

Division Nine: Finishes

Introduction	316
Estimating Tips	319
Division Nine Checklist	321
Estimating Data	317

Division Ten: Specialties

Introduction	386
Estimating Tips	388
Division Ten Checklist	389
Estimating Data	387

Division Eleven: Equipment

Introduction	412
Estimating Tips	414
Division Eleven Checklist	415
Estimating Data	413

Division Twelve: Furnishings

Introduction	436
Estimating Tips	438
Division Twelve Checklist	439
Estimating Data	437

Division Thirteen: Special Construction

Introduction	452
Estimating Tips	454
Division Thirteen Checklist	455
Estimating Data	453

Division Fourteen: Conveying Systems

Introduction	472
Estimating Tips	474
Division Fourteen Checklist	475
Estimating Data	473

Division Twenty-One: Fire Suppression

Introduction	486
Estimating Tips	488
Division Twenty-One Checklist	489
Estimating Data	487

Division Twenty-Two: Plumbing

Introduction	502
Estimating Tips	505
Division Twenty-Two Checklist	506
Estimating Data	503

Division Twenty-Three: Heating Ventilating & Air Conditioning

Introduction	578
Estimating Tips	581
Division Twenty-Three Checklist	583
Estimating Data	579

Divisions Twenty-Six, Twenty-Seven, and Twenty-Eight: Electrical, Communications & Security

Introduction	628
Estimating Tips	633
Divisions Twenty-Six, Twenty-Seven, and Twenty-Eight Checklist	635
Estimating Data	630

Division Thirty-One: Earthwork

Introduction	710
Estimating Tips	714
Division Thirty-One Checklist	715
Estimating Data	712

Division Thirty-Two: Exterior Improvements

Introduction	760
Estimating Tips	763
Division Thirty-Two Checklist	764
Estimating Data	761

Division Thirty-Three: Utilities

Introduction	802
Estimating Tips	804
Division Thirty-Three Checklist	805
Estimating Data	803

Division Thirty-Four: Transportation

Introduction	818
Estimating Tips	820
Division Thirty-Four Checklist	821
Estimating Data	819

Division Forty-Four: Pollution Control Equipment

Introduction	832
Estimating Tips	834
Division Forty-Four Checklist	835
Estimating Data	833

Appendix

A. Square Foot and Preliminary Estimates	840
B. Weights, Measures, Equivalents, and Conversions	853
C. Metric Conversions and Equivalents	862
D. Trigonometry	873
E. Geometry	880
F. Weather Data	888
G. Calculating the Time Value of Money	894
H. LEED® for New Construction and Major Renovation	
2009 Scorecard	895
I. Professional Associations	897
J. Abbreviations	907