
Contents

Preface.....	vii
Acknowledgments.....	ix
Editors.....	xi
Contributors.....	xiii
1 History.....	1
<i>Charles Jarnot, Edited by Benjamin Trapnell</i>	
2 UAS Applications.....	19
<i>Mark Blanks</i>	
3 The “System” in UAS.....	43
<i>Joshua Brungardt with Richard Kurt Barnhart</i>	
4 UAS Sensing: Theory and Practice.....	57
<i>Gabriel B. Ladd</i>	
5 U.S. Aviation Regulatory System.....	83
<i>Douglas M. Marshall</i>	
6 Human Factors in Unmanned Aerial Systems.....	107
<i>Warren Jensen</i>	
7 Safety Assessments.....	123
<i>Eric J. Shappee</i>	
8 Export Control and ITAR.....	137
<i>Eric McClafferty and Rose Mooney</i>	
9 Unmanned Aircraft System Design.....	159
<i>Brian Argrow</i>	
10 UAS Airframe and Powerplant Design.....	173
<i>Michael T. Most</i>	
11 UAS Subsystem Nexus: The Electrical System.....	213
<i>Michael T. Most</i>	
12 Communication Systems.....	233
<i>Saeed M. Khan</i>	
13 Command and Control.....	259
<i>Nathan Maresch</i>	

14 Unmanned Aircraft Subsystem Integration	279
<i>William H. Semke</i>	
15 Detect and Avoid	297
<i>Dallas Brooks and Stephen P. Cook</i>	
16 Policy and Public Perception	315
<i>Ben Miller</i>	
17 The Future of Unmanned Aircraft Systems	329
<i>Richard Kurt Barnhart</i>	
Epilogue: A Final Word	345
Index	361