

Detailed Contents

Preface	21		
Part 1	Communicating in the Workplace	27	
1	Introduction to Technical Communication	28	
What Is Technical Communication?	29		
Technical Communication Is a Digital <i>and</i> a Human Activity	30		
Technical Communication Reaches a Global Audience	31		
Technical Communication Is Part of Most Careers	32		
Technical Communicators Play Many Roles	33		
Main Features of Technical Communication	33		
Reader-Centered	33		
Accessible and Efficient	34		
Often Produced by Teams	36		
Delivered in Paper and Digital Versions	36		
Purposes of Technical Communication	36		
Documents That Inform	36		
Documents That Instruct	36		
Documents That Persuade	37		
Preparing Effective Technical Documents	37		
CASE Providing Information Readers Can Use	38		
CASE Being Persuasive	39		
CASE Considering the Ethical Issues	39		
CASE Working on a Team and Thinking Globally	40		
■ PROJECTS	41		
2	Meeting the Needs of Specific Audiences	42	
Analyze Your Document's Audience and Purpose	44		
Primary and Secondary Audiences	44		
Your Relationship to Your Readers	45		
Purpose of Your Document	45		
Primary and Secondary Purposes	45		
Intended Use of the Document	46		
Assess the Audience's Technical Background	46		
Highly Technical Audience	46		
Semitechnical Audience	48		
Nontechnical Audience	49		
Audiences with Varying Technical Backgrounds	50		
CASE Tailoring a Single Document for Multiple Audiences	50		
Digital Documents for Multiple Audiences	51		
Anticipate Your Audience's Preferences	51		
Length and Details	51		
Format and Medium	51		
Tone	53		
Due Date and Timing	53		
Budget	53		
■ GUIDELINES for Analyzing Your Audience and Its Use of the Document	54		
Develop an Audience and Use Profile	54		
CASE Developing an Audience and Use Profile	56		
■ CHECKLIST Analyzing Audience and Purpose	57		
■ PROJECTS	57		
3	Persuading Your Audience	59	
What Is Persuasion?	60		
Identify Your Specific Persuasive Goal	62		
Try to Predict Audience Reaction	62		
Expect Audience Resistance	63		
Know How to Connect with the Audience	64		
CASE Connecting with the Audience	65		
Allow for Give-and-Take	67		
Ask for a Specific Response	67		
Never Ask for Too Much	67		
Recognize All Constraints	68		
Organizational Constraints	68		
Legal Constraints	69		
Ethical Constraints	69		
Time Constraints	70		
Social and Psychological Constraints	70		
■ CONSIDER THIS People Often React Emotionally to Persuasive Appeals	71		

10 Detailed Contents

Support Your Claims Convincingly	72	■ CHECKLIST Ethical Communication	103
Offer Convincing Evidence	72	■ PROJECTS	103
FACTUAL STATEMENTS 73 • STATISTICS 73 •			
EXAMPLES 73 • EXPERT TESTIMONY 74			
Appeal to Common Goals and Values	74		
Consider the Cultural Context	75		
Digital Persuasion and Social Media	76		
■ GUIDELINES for Persuasion	76		
Shaping Your Argument	78		
■ CHECKLIST Persuasion	82		
■ PROJECTS	82		
4 Weighing the Ethical Issues	84		
Recognize Examples and Causes of Unethical Workplace Communication	86		
Yielding to Social Pressure	87		
Mistaking Groupthink for Teamwork	88		
Types of Communication Abuses in the Workplace	88		
Suppressing Knowledge the Public Needs	89		
Hiding Conflicts of Interest	89		
Exaggerating Claims about Technology	89		
Falsifying or Fabricating Data	90		
Using Visual Images That Conceal the Truth	90		
Stealing or Divulging Proprietary Information	90		
Withholding Information People Need for Their Jobs	90		
Exploiting Cultural Differences	90		
Ethical Issues with Social and Digital Media	91		
Rely on Critical Thinking for Ethical Decisions	92		
Reasonable Criteria for Ethical Judgment	92		
Ethical Dilemmas	93		
Anticipate Some Hard Choices	94		
CASE A Hard Choice	94		
Learn to Recognize Legal Issues and Plagiarism	95		
Learn to Recognize Plagiarism	96		
Blatant Versus Unintentional Plagiarism	97		
Plagiarism and the Internet	98		
Plagiarism and Your Career	98		
■ CONSIDER THIS Ethical Standards are Good for Business	98		
Decide When and How to Report Ethical Abuses	99		
■ GUIDELINES for Ethical Communication	102		
		5 Teamwork and Global Considerations	105
		Teamwork and Project Management	106
		■ GUIDELINES for Managing a Collaborative Project	108
		Teamwork: Virtual and Face to Face	109
		■ GUIDELINES for Running a Meeting	111
		Identifying and Managing Conflicts in Collaborative Groups	111
		Interpersonal Differences	111
		Gender Differences	112
		Cultural Differences	112
		Managing Group Conflict	112
		Overcoming Differences by Active Listening	113
		■ GUIDELINES for Active Listening	114
		Thinking Creatively	114
		Brainstorm as a Way of Getting Started	114
		Brainstorming with Digital Technologies	115
		Mind-Mapping	115
		Storyboarding	117
		Reviewing and Editing Others' Work	117
		■ GUIDELINES for Peer Reviewing and Editing	118
		Ethical Issues in Workplace Collaboration	118
		Intimidating One's Peers	118
		Claiming Credit for Others' Work	119
		Hoarding Information	119
		Global Considerations When Working in Teams	119
		Interpersonal Issues in Global Teams	120
		DIGITAL COMMUNICATION AND SOCIAL CUES 120 • MISUNDERSTANDING CULTURAL CODES 120 • MISUSING HUMOR, SLANG, AND IDIOMS 120 • MISUSING CULTURALLY SPECIFIC REFERENCES 121 • FAILING TO ALLOW FOR EASY TRANSLATION 121 • FAILING TO LISTEN 122	
		■ GUIDELINES for Communicating on a Global Team	122
		■ CHECKLIST Teamwork and Global Considerations	123
		■ PROJECTS	124
		6 An Overview of the Technical Writing Process	126
		Critical Thinking in the Writing Process	128

A Sample Writing Situation	130	Observations and Experiments	164
Working with the Information	131	■ GUIDELINES for Surveys	166
Planning the Document	132	■ CONSIDER THIS Frequently Asked Questions about Copyright	168
Drafting the Document	134	■ PROJECTS	169
Revising the Document	135		
Make Proofreading Your Final Step	138		
■ GUIDELINES for Proofreading	139	8 Evaluating and Interpreting Information	171
Digital Technology and the Writing Process	139	Evaluate the Sources	172
■ CHECKLIST Proofreading	140	Pay Special Attention to Evaluating Online Sources	174
■ PROJECTS	141	Evaluate the Evidence	174
		Interpret Your Findings	175
Part 2 The Research Process	143	Identify Your Level of Certainty	176
		Examine the Underlying Assumptions	176
7 Thinking Critically about the Research Process	144	Be Alert for Personal Bias	177
		Consider Other Possible Interpretations	177
Three Essential Approaches to Research	145	■ CONSIDER THIS Standards of Proof Vary for Different Audiences	178
Asking the Right Questions	146	Avoid Distorted or Unethical Reasoning	178
CASE Defining and Refining a Research Question	146	Faulty Generalization	178
Exploring a Balance of Views	148	Faulty Causal Reasoning	179
Achieving Adequate Depth in Your Search	148	Faulty Statistical Analysis	181
Evaluating and Interpreting Your Findings	150	THE SANITIZED STATISTIC 181 • THE MEANINGLESS STATISTIC 182 • THE UNDEFINED AVERAGE 182 • THE DISTORTED PERCENTAGE FIGURE 183 • THE BOGUS RANKING 183 • CONFUSION OF CORRELATION WITH CAUSATION 183 • THE BIASED META-ANALYSIS 184 • THE FALLIBLE COMPUTER MODEL 184 • MISLEADING TERMINOLOGY 184	
Primary versus Secondary Sources	151	Acknowledge the Limits of Research	185
Exploring Secondary Sources	151	Obstacles to Validity and Reliability	185
Searching for Secondary Sources	152	Flaws in Research Studies	186
GOOGLE AND OTHER SEARCH ENGINES 152 • WIKIPEDIA 153 • DIGITAL LIBRARIES 153 • LIBRARIES AND LIBRARY WEB SITES 153		Social Media and Research Reporting	186
Types of Secondary Sources	154	■ GUIDELINES for Evaluating and Interpreting Information	187
WEB SITES (GENERAL) 154 • GOVERNMENT WEB SITES 154 • BLOGS 154 • WIKIS (INCLUDING WIKIPEDIA) 155 • SOCIAL MEDIA 155 • ONLINE GROUPS 155 • NEWS OUTLETS (INCLUDING MAGAZINES AND OTHER PERIODICALS) 155 • BOOKS 156 • PEER-REVIEWED JOURNAL ARTICLES 156 • GRAY LITERATURE 156 • REFERENCE WORKS 157		■ CHECKLIST The Research Process	188
■ GUIDELINES for Researching on the Web and with Social Media	159	■ PROJECTS	189
Exploring Primary Sources	160	9 Summarizing Research Findings and Other Information	191
Unsolicited Inquiries	160	Considering Audience and Purpose	192
Informational Interviews	160	What Readers Expect from a Summary	194
■ GUIDELINES for Informational Interviews	162		
Surveys	163		

12 Detailed Contents

How to Create a Summary	194	Use Passive Voice Selectively	231
■ GUIDELINES for Summarizing Information	198	Avoid Overstuffed Sentences	232
Special Types of Summaries	199	Editing for Conciseness	232
Closing Summary	199	Avoid Wordy Phrases	233
Informative Abstract (“Summary”)	199	Eliminate Redundancy	233
Descriptive Abstract (“Abstract”)	200	Avoid Needless Repetition	233
Executive Abstract	201	Avoid <i>There</i> Sentence Openers	234
Summarizing Information for Social Media	202	Avoid Some <i>It</i> Sentence Openers	234
■ CHECKLIST Summaries	203	Delete Needless Prefaces	234
■ PROJECTS	203	Avoid Weak Verbs	235
		Avoid Excessive Prepositions	236
		Avoid Nominalizations	236
		Make Negatives Positive	238
		Clean Out Clutter Words	238
		Delete Needless Qualifiers	239
		Editing for Fluency	239
		Combine Related Ideas	240
		Vary Sentence Construction and Length	242
		Use Short Sentences for Special Emphasis	242
		Finding the Exact Words	242
		Prefer Simple and Familiar Wording	243
		Avoid Useless Jargon	244
		Use Acronyms Selectively	245
		Avoid Triteness	245
		Avoid Misleading Euphemisms	245
		Avoid Overstatement	246
		Avoid Imprecise Wording	247
		Be Specific and Concrete	247
		Use Analogies to Sharpen the Image	248
		Adjusting Your Tone	249
		■ GUIDELINES for Deciding about Tone	250
		Consider Using an Occasional Contraction	250
		Address Readers Directly	251
		Use <i>I</i> and <i>We</i> When Appropriate	251
		Prefer the Active Voice	252
		Emphasize the Positive	252
		Avoid an Overly Informal Tone	252
		Avoid Personal Bias	253
		Avoid Biased Language	254
		■ GUIDELINES for Avoiding Biased Language	255
		Global, Legal, and Ethical Implications of Style and Tone	256
		Digital Writing and Editing	257
Part 3 Organization, Style, and Visual Design	205		
10 Organizing for Readers	206		
The Typical Shape of Workplace Documents	208		
Outlining	208		
An Outlining Strategy	208		
The Formal Outline	211		
■ GUIDELINES for Outlining	213		
Storyboarding	214		
Paragraphing	214		
The Support Paragraph	214		
The Topic Sentence	216		
Paragraph Unity	217		
Paragraph Coherence	217		
Paragraph Length	218		
Chunking	219		
Providing an Overview	220		
Organizing for Social Media and Global Audiences	221		
■ CHECKLIST Organizing Information	221		
■ PROJECTS	222		
11 Editing for a Professional Style and Tone	224		
Editing for Clarity	226		
Avoid Ambiguous Pronoun References	226		
Avoid Ambiguous Modifiers	227		
Unstack Modifying Nouns	228		
Arrange Word Order for Coherence and Emphasis	228		
Use Active Voice Whenever Possible	229		

■ CHECKLIST Style	258	Use Color to Organize	296
■ PROJECTS	260	Use Color to Orient	296
		Use Color to Emphasize	297
12 Designing Visual Information	261	■ GUIDELINES for Incorporating Color	297
Why Visuals Matter	263	Presenting Visuals	298
When to Use Visuals and How to Choose the Right Ones	264	■ GUIDELINES for Presenting Visuals	299
When to Use Visuals	264	Ethical Considerations	299
Types of Visuals to Consider	265	Present the Real Picture	300
Choosing the Right Visual	266	Present the Complete Picture	300
Using Software to Create Visuals	267	Don't Mistake Distortion for Emphasis	300
Tables	269	Use Copyright Free Visuals or Credit the Work of Others	302
How to Construct a Table	271	■ GUIDELINES for Obtaining and Citing Visual Material	302
Graphs	272	Social Media and Cultural Considerations	303
Bar Graphs	273	■ CHECKLIST Visuals	303
SIMPLE BAR GRAPH 273 • MULTIPLE-BAR GRAPH 273 • HORIZONTAL-BAR GRAPH 274 • STACKED-BAR GRAPH 274 • 100 PERCENT BAR GRAPH 275 • 3-D BAR GRAPH 276		■ PROJECTS	304
Line Graphs	276	13 Designing Pages and Documents	307
SIMPLE LINE GRAPH 276 • MULTILINE GRAPH 277 • DEVIATION LINE GRAPH 277 • BAND OR AREA GRAPH 278 • MULTIPLE-BAND GRAPH 278		Page Design in Print and Digital Workplace Documents	308
■ GUIDELINES for Creating Tables and Graphs	279	Design Skills Needed by Technical Communicators	309
Charts	280	Word Processing and Desktop Publishing	312
Pie Charts	280	Using Styles and Templates	312
Organization Charts	282	Using Style Guides and Style Sheets	313
Flowcharts	282	Creating a Design That Works for Your Readers	313
Tree Charts	282	Shaping the Page	313
Gantt and PERT Charts	282	PROVIDE PAGE NUMBERS, HEADERS, AND FOOTERS 313 • USE A GRID 314 • USE WHITE SPACE TO CREATE AREAS OF EMPHASIS 314 • PROVIDE AMPLE MARGINS 315 • KEEP LINE LENGTH REASONABLE 316 • KEEP LINE SPACING CONSISTENT 316 • TAILOR EACH PARAGRAPH TO ITS PURPOSE 316 • MAKE LISTS FOR EASY READING 317	
Pictograms	285	■ GUIDELINES for Shaping the Page	318
■ GUIDELINES for Creating Charts	285	Styling the Words and Letters	318
Graphic Illustrations	286	SELECT AN APPROPRIATE TYPEFACE 319 • USE TYPE SIZES THAT ARE EASY TO READ 320 • USE FULL CAPS SPARINGLY • 321	
Diagrams	287	■ GUIDELINES for Styling the Words and Letters	321
EXPLODED DIAGRAMS 287 • CUTAWAY DIAGRAMS 287 • BLOCK DIAGRAMS 288		Adding Emphasis	322
Photographs	289		
Maps	290		
Symbols and Icons	291		
Infographics	292		
■ GUIDELINES for Creating Graphic Illustrations	293		
Using Color and Presenting Visuals	295		

14 Detailed Contents

■ GUIDELINES for Adding Emphasis	322	Routine Miscellaneous Memo	359
Using Headings for Access and Orientation	322	■ GUIDELINES for Memos	361
LAY OUT HEADINGS BY LEVEL 323 • DECIDE HOW TO PHRASE YOUR HEADINGS 323 • MAKE HEADINGS VISUALLY CONSISTENT AND GRAMMATICALLY PARALLEL 325		■ CHECKLIST Memos	362
■ GUIDELINES for Using Headings	325	Letter Basics, Audience, and Purpose	364
Audience Considerations in Page Design	326	Letter Parts, Formats, and Design Elements	365
Designing Digital Documents	327	Standard Parts	365
Adobe Acrobat™ and PDF files	327	HEADING AND DATE 365 • INSIDE ADDRESS 365	
Web Pages	328	• SALUTATION 367 • TEXT 367 • COMPLIMENTARY CLOSING 367 • SIGNATURE 367	
Tablets, Smartphones, and E-reader Pages	329	Optional Parts	368
Social Media Posts	329	ATTENTION LINE 368 • SUBJECT LINE 368	
■ CHECKLIST Page Design	330	• TYPIST'S NOTATION 369 • ENCLOSURE NOTATION 369 • COPY (OR DISTRIBUTION) NOTATION 369 • POSTSCRIPT 369	
■ PROJECTS	331	Formats and Design Features	370
		LETTER FORMAT 370 • QUALITY STATIONERY 370 • UNIFORM MARGINS AND SPACING 370 • HEADERS FOR SUBSEQUENT PAGES 370 • THE ENVELOPE 370	
Part 4 Specific Documents and Applications	333	Letter Tone	371
		Establish and Maintain a “You” Perspective	371
14 Email	334	Be Polite and Tactful	372
Email Basics and Types	335	Use Plain English	372
Considering Audience and Purpose	337	Decide on a Direct or Indirect Organizing Pattern	373
Email Parts and Format	339	Global and Ethical Considerations When Writing Letters	374
Email Style and Tone	340	■ GUIDELINES for Letters in General	375
Interpersonal Issues and Email	340	Conveying Bad or Unwelcome News in Letters	376
Choose the Right Approach for the Situation	342	Common Types of Letters	376
Email and External Audiences	343	Inquiry Letters	376
Ethical, Legal, and Global Issues When Using Email	344	■ GUIDELINES for Conveying Bad News	378
■ GUIDELINES for Writing and Using Email	346	■ GUIDELINES for Inquiry Letters	381
■ CHECKLIST Email	348	Claim Letters	381
■ PROJECTS	349	■ GUIDELINES for Claim Letters	384
		Sales Letters	384
15 Workplace Memos and Letters	351	■ GUIDELINES for Sales Letters	386
Memo Basics, Audience, and Purpose	352	Adjustment Letters	386
Memo Parts and Format	353	■ GUIDELINES for Adjustment Letters	389
Memo Tone	356	■ CHECKLIST Letters	389
Common Types of Memos	359	■ PROJECTS	390
Transmittal Memo	359		
Summary or Follow-up Memo	359		

16	Résumés and Other Job-Search Materials	392		
	Assessing Your Skills and Aptitudes	394		
	Researching the Job Market	394		
	Plan Your Strategy	394		
	Focus Your Search	394		
	Explore Employment Resources	395		
	Learn to Network	396		
	Résumés	396		
	Parts of a Résumé	397		
	CONTACT INFORMATION 397 • CAREER OBJECTIVES 397 • EDUCATION 397 • WORK EXPERIENCE 399 • PERSONAL DATA AND INTERESTS 399 • REFERENCES 399 • PORTFOLIOS 399			
	Using Templates	399		
	Organizing Your Résumé	400		
	■ GUIDELINES for Writing and Designing Your Résumé	400		
	Application Letters	402		
	Solicited Application Letters	402		
	Unsolicited Application Letters	404		
	■ GUIDELINES for Application Letters	404		
	Digital and Print Job Application Materials	405		
	■ CONSIDER THIS Your Social Media Profile and the Job Search	408		
	■ GUIDELINES for Online Job Applications	408		
	Dossiers, Portfolios, and E-Portfolios	409		
	Dossiers	409		
	Portfolios and E-portfolios	409		
	■ GUIDELINES for Dossiers, Portfolios, and E-Portfolios	411		
	Interviews and Follow-Up Communication	411		
	Interviews	411		
	Follow-Up Communication	413		
	THANK YOU NOTES 413 • ACCEPTANCE OR REFUSAL LETTERS 414			
	■ GUIDELINES for Interviews and Follow-Up Communication	414		
	■ CHECKLIST Résumés	415		
	■ CHECKLIST Application Letters	416		
	■ CHECKLIST Supporting Materials	417		
	■ PROJECTS	417		
	17	Technical Definitions	419	
	Considering Audience and Purpose	421		
	Legal, Ethical, Societal, and Global Implications	421		
	Types of Definition	422		
	Parenthetical Definitions	423		
	Sentence Definitions	424		
	Expanded Definitions	424		
	Methods for Expanding Definitions	425		
	Etymology	425		
	History	426		
	Negation	426		
	Operating Principle	426		
	Analysis of Parts	426		
	Visuals	427		
	Comparison and Contrast	427		
	Required Conditions	428		
	Examples	428		
	Using Multiple Expansion Methods	428		
	AN EXPANDED DEFINITION FOR SEMITECHNICAL READERS 428 • AN EXPANDED DEFINITION FOR NONTECHNICAL READERS 429			
	Placing Definitions in a Document	429		
	■ GUIDELINES for Definitions	435		
	■ CHECKLIST Definitions	435		
	■ PROJECTS	436		
	18	Technical Descriptions, Specifications, and Marketing Materials	438	
	Considering Audience and Purpose	439		
	Objectivity in Technical Descriptions	440		
	Elements of Descriptions	441		
	Clear and Limiting Title	441		
	Appropriate Level of Detail and Technicality	441		
	Visuals	441		
	Clearest Descriptive Sequence	443		
	SPATIAL SEQUENCE 443 • FUNCTIONAL SEQUENCE 443 • CHRONOLOGICAL SEQUENCE 443			

16 Detailed Contents

Types of Technical Descriptions	443	Online Help	483
A Complex Product Description	445	Social Media Instructions	483
A Complex Process Description	449	Procedures	485
■ GUIDELINES for Descriptions	453	Evaluating the Usability of Instructions and Procedures	488
Specifications	453	Usability and the User Experience	488
Types of Specifications	453	Approaches for Evaluating a Document's Usability	490
Considering Audience and Purpose	454	THINK-ALOUD EVALUATION 490 • FOCUS GROUPS 490	
■ GUIDELINES for Specifications	456	■ CHECKLIST Instructions and Procedures	491
Technical Marketing Materials	456	■ PROJECTS	492
■ GUIDELINES for Technical Marketing Materials	459	20 Informal Reports	494
■ CHECKLIST Technical Descriptions	459	Informal Versus Formal Reports	495
■ CHECKLIST Specifications	460	Informational Versus Analytical Reports	496
■ CHECKLIST Technical Marketing Materials	461	Types of Informational Reports	497
■ PROJECTS	461	Progress Reports	497
19 Instructions and Procedures	463	■ GUIDELINES for Progress Reports	500
Considering Audience and Purpose	465	Periodic Activity Reports	500
Formats for Instructional Documents	465	■ GUIDELINES for Periodic Activity Reports	500
Faulty Instructions and Legal Liability	468	Trip Reports	502
Elements of Effective Instructions	469	■ GUIDELINES for Trip Reports	503
Clear and Limiting Title	469	Meeting Minutes	504
Informed and Accurate Content	469	■ GUIDELINES for Meeting Minutes	505
Visuals	469	Types of Analytical Reports	505
Appropriate Level of Detail and Technicality	470	Feasibility Reports	505
PROVIDE BACKGROUND 471 • PROVIDE ADEQUATE DETAIL 472 • OFFER EXAMPLES 472		■ GUIDELINES for Feasibility Reports	506
■ GUIDELINES for Providing Appropriate Detail in Instructions	474	Recommendation Reports	508
INCLUDE TROUBLESHOOTING ADVICE 474		■ GUIDELINES for Recommendation Reports	508
Logically Ordered Steps	474	Justification Reports	510
Notes and Hazard Notices	474	■ GUIDELINES for Justification Reports	510
Readability	476	Peer Review Reports	512
USE DIRECT ADDRESS, ACTIVE VOICE, AND IMPERATIVE MOOD 476 • USE SHORT AND LOGICALLY SHAPED SENTENCES 476 • USE PARALLEL PHRASING 477 • PHRASE INSTRUCTIONS AFFIRMATIVELY 477 • USE TRANSITIONS TO MARK TIME AND SEQUENCE 478		■ GUIDELINES for Peer Review Reports	512
Effective Design	478	■ CHECKLIST Informal Reports	512
■ GUIDELINES for Designing Instructions	478	■ PROJECTS	513
Introduction-Body-Conclusion Structure	479	21 Formal Analytical Reports	515
INTRODUCTION 480 • BODY: REQUIRED STEPS 480 • CONCLUSION 480		Considering Audience and Purpose	517
Online and Social Media Instructions	483	Typical Analytical Problems	517

Causal Analysis: “Why Does X Happen?”	518	Audience and Use Profile	540
CASE The Reasoning Process in Causal Analysis	518	■ GUIDELINES for Reasoning through an Analytical Problem	553
Comparative Analysis: “Is X OR Y Better for Our Needs?”	518	■ CHECKLIST Analytical Reports	554
CASE The Reasoning Process in Comparative Analysis	518	■ PROJECTS	555
Feasibility Analysis: “Is This a Good Idea?”	519	22 Proposals	557
CASE The Reasoning Process in Feasibility Analysis	519	Considering Audience and Purpose	558
Combining Types of Analysis	520	The Proposal Process	559
Elements of an Effective Analysis	520	CASE Submitting a Competitive Proposal	560
Clearly Identified Problem or Purpose	520	Types of Proposals	561
Adequate but Not Excessive Data	520	Planning Proposals	562
Accurate and Balanced Data	521	Research Proposals	562
Fully Interpreted Data	523	Sales Proposals	566
Subordination of Personal Bias	523	Elements of a Persuasive Proposal	566
Appropriate Visuals	523	A Forecasting Title or Subject Line	566
Valid Conclusions and Recommendations	523	Background Information	568
Self-Assessment	526	Statement of the Problem	568
Structuring a Formal Report	526	Description of Solution	568
Introduction	527	A Clear Focus on Benefits	568
Body	528	Honest and Supportable Claims	569
SOURCES OF EMF EXPOSURE 529 • PHYSIOLOGIC EFFECTS AND HEALTH RISKS FROM EMF EXPOSURE 531 • DEBATE OVER QUALITY, COST, AND STATUS OF EMF RESEARCH 532 • VIEWS FROM THE POWER INDUSTRY AND THE PUBLIC 534 • RISK-AVOIDANCE MEASURES BEING TAKEN 534		Appropriate Detail	570
Conclusion	535	Readability	570
SUMMARY AND OVERALL INTERPRETATION OF FINDINGS 535 • RECOMMENDATIONS 536		A Tone That Connects with Readers	570
Front Matter and End Matter Supplements	537	Visuals	570
Front Matter	537	Accessible Page Design	571
LETTER OF TRANSMITTAL 537 • TITLE PAGE 537 • TABLE OF CONTENTS 538 • LIST OF TABLES AND FIGURES 538 • ABSTRACT OR EXECUTIVE SUMMARY 538		Supplements Tailored for a Diverse Audience	571
Text of the Report	538	Proper Citation of Sources and Contributors	572
End Matter	538	Structuring a Proposal	572
GLOSSARY 538 • APPENDICES 539 • REFERENCES OR WORKS CITED LIST 539		Introduction	573
A Situation Requiring an Analytical Report	539	Body	575
The Situation	539	Conclusion	577
		A Situation Requiring a Formal Proposal	577
		The Situation	577
		Audience and Use Profile	578
		■ GUIDELINES for Proposals	589
		■ CHECKLIST Proposals	590
		■ PROJECTS	591

23 Oral Presentations and Video Conferencing	592		
Advantages and Drawbacks of Oral Presentations	594		
Avoiding Presentation Pitfalls	594		
Planning Your Presentation	595		
Analyze Your Audience and Purpose	595		
Analyze Your Speaking Situation	597		
Select a Type of Presentation	597		
INFORMATIVE PRESENTATIONS	598	• TRAINING/	
INSTRUCTIONAL PRESENTATIONS	598	• PERSUASIVE	
PRESENTATIONS	598	• ACTION PLAN	
PRESENTATIONS	598	• SALES PRESENTATIONS	599
Select a Delivery Method	599		
THE MEMORIZED DELIVERY	599	• THE IMPROMPTU	
DELIVERY	599	• THE SCRIPTED DELIVERY	599
• THE		EXTEMPORANEOUS DELIVERY	600
Preparing Your Presentation	601		
Research Your Topic	601		
Aim for Simplicity and Conciseness	601		
Anticipate Audience Questions	601		
Outline Your Presentation	601		
INTRODUCTION	602	• BODY	602
• CONCLUSION	602		
Planning Your Visuals and Choosing a Media Format	603		
Decide Which Visuals to Use and Where to Use Them	604		
Create a Storyboard	604		
Decide Which Visuals You Can Realistically Create	604		
BE SELECTIVE	605	• MAKE VISUALS EASY TO READ	
AND UNDERSTAND	605	• USE THE RIGHT APP TO	
PREPARE YOUR VISUALS	606		
Choose the Right Media Format	606		
Using PowerPoint and Other Presentation Apps	608		
When and How to Use Handouts	609		
Ethics and the Use of Presentation Apps	609		
CASE PowerPoint and the Space Shuttle Columbia Disaster	611		
■ GUIDELINES for Using Presentation Apps	611		
Delivering Your Presentation	612		
Rehearse Your Delivery	612		
Check the Room and Setting Beforehand	613		
Cultivate the Human Landscape	613		
GET TO KNOW YOUR AUDIENCE	613	• BE	
REASONABLE	613	• DISPLAY ENTHUSIASM AND	
CONFIDENCE	613	• DON'T PREACH	613
Keep Your Listeners Oriented	613		
OPEN WITH A CLEAR AND ENGAGING		INTRODUCTION	613
• GIVE CONCRETE		EXAMPLES	614
• PROVIDE EXPLICIT		TRANSITIONS	614
• REVIEW AND INTERPRET	614		
Plan for How You Will Use Any Noncomputer Visual Aids	614		
PREPARE	615	• ORGANIZE	615
• AVOID LISTENER		DISTRACTION	615
Manage Your Presentation Style	615		
USE NATURAL MOVEMENTS AND REASONABLE		POSTURES	615
• ADJUST VOLUME,		PRONUNCIATION, AND RATE	615
• MAINTAIN		EYE CONTACT	615
Manage Your Speaking Situation	616		
■ CONSIDER THIS Cross-Cultural Audiences May Have Specific Expectations	616		
BE RESPONSIVE TO LISTENER FEEDBACK	616	•	
STICK TO YOUR PLAN	617	• LEAVE LISTENERS WITH	
SOMETHING TO REMEMBER	617	• ALLOW TIME FOR	
QUESTIONS AND ANSWERS (Q & A)	617		
■ GUIDELINES for Delivering an Oral Presentation and Managing Listener Questions	617		
Video Conferencing	618		
■ GUIDELINES for Video Conferencing	619		
■ CHECKLIST Oral Presentations	619		
■ PROJECTS	620		
24 Blogs, Wikis, and Web Pages	622		
Considering Audience and Purpose	624		
Blogs	625		
Internal Blogs	625		
External Blogs	625		
Wikis	626		
Internal Wikis	626		
External Wikis	626		
■ GUIDELINES for Writing and Using Blogs and Wikis	627		
Web Pages	627		
How People Read Web Pages	628		
Writing and Designing for the Web	629		
■ GUIDELINES for Writing Web Pages	630		
■ GUIDELINES for Designing Web Pages	631		
Techniques and Technologies for Creating Web Sites	631		
Planning Web Sites Using Storyboarding	632		

Teamwork When Creating Web Sites	632	■ GUIDELINES for Quoting	654
Tools for Creating Web Pages	633	Paraphrasing the Work of Others	656
Global, Ethical, and Legal Considerations	633	■ GUIDELINES for Paraphrasing	656
Global Considerations	633	What You Should Document	657
Ethical Considerations	633	How You Should Document	658
Legal Considerations	634	MLA Documentation Style	658
■ GUIDELINES for Global, Ethical, and Legal Considerations on the Web	634	MLA Parenthetical References	658
■ CHECKLIST Writing and Designing for Blogs, Wikis, and the Web	635	MLA Works Cited Entries	659
■ PROJECTS	636	MLA Sample Works Cited Pages	669
		Discussion of Figure A.4	672
		APA Documentation Style	672
25 Social Media	638	APA Parenthetical References	673
Considering Audience and Purpose	640	APA Reference List Entries	673
Audience as Contributor	642	APA Sample Reference List	681
Personal Versus Workplace Uses of Social Media	642	Discussion of Figure A.5	683
Using Social Media for Technical Communication	643	Appendix B: A Quick Guide to Grammar, Usage, and Mechanics	684
Customer Review Sites	643	Grammar	684
Facebook	643	Sentence Fragments	684
Google+	643	Run-On Sentences	685
Instagram	644	Comma Splices	685
LinkedIn and Other Job Sites	644	Faulty Agreement—Subject and Verb	686
Twitter	645	Faulty Agreement—Pronoun and Referent	687
YouTube	646	Dangling and Misplaced Modifiers	687
Instructional Videos for Social Media	646	Faulty Parallelism	688
■ GUIDELINES for Creating Instructional Videos for Social Media	647	Faulty Coordination	689
Credibility and Legal Issues	648	Faulty Subordination	689
■ GUIDELINES for Writing and Using Social Media	649	Faulty Pronoun Case	690
■ CHECKLIST Social Media	650	Punctuation	691
■ PROJECTS	650	Period	691
		Question Mark	691
		Exclamation Point	691
		Semicolon	691
		Colon	692
		Comma	692
		Apostrophe	695
		Quotation Marks	696
		Ellipses	697
Part 5 Resources for Technical Writers	652		
Appendix A: A Quick Guide to Documentation	653		
Taking Notes	653		
■ GUIDELINES for Taking Notes	653		
Quoting the Work of Others	654		

20 Detailed Contents

Brackets	697	Transitions	703
Italics	697	Use Transitional Expressions	703
Parentheses	698	Repeat Key Words and Phrases	703
Dashes	698	Use Forecasting Statements	703
Mechanics	698	Lists	703
Abbreviation	698	Embedded Lists	703
Hyphenation	699	Vertical Lists	704
Capitalization	699		
Numbers and Numerals	700		
Spelling	701	Works Cited	706
Usage	701	Index	711