1. Record Nr. UNINA9910366579903321

Autore	Henderson Brad
Titolo	A math-based writing system for engineers : sentence algebra & document algorithms / / by Brad Henderson
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	9783030107567 3030107566 3030107558 9783030107550 303010754X 9783030107543
Descrizione fisica	1 online resource (xxiv, 357 pages) : illustrations
Disciplina	502.3
Soggetti	Communication in engineering Technical writing Engineering - Vocational guidance Science - Study and teaching Grammar Job Careers in Science and Engineering Science Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Chapter 1. Introduction to the Math-Based Writing System -- Part I. Chapter 2. Part I Primer: The Elements of Sentence Algebra -- Chapter 3. The Core Variables N, V, and X -- Chapter 4. The Accessory Variables: Mn, Mv, L, C, and I -- Chapter 5. Basic Sentence Equations: B1, B2, and B3 -- Chapter 6. More Basic Sentence Equations: B4 and B5 -- Chapter 7. Advanced Sentence Structures: Compound and Complex Sentences, and Relative Clauses -- Chapter 8. More Advanced Sentence Structures: Verbal Phrases, Inversions, and Variations -- Part II. Chapter 9. Part II Primer: The Elements of Sentence Optimization -- Chapter 10. Simplify & Clarify -- Chapter 11. Eliminate Category I

Errors -- Chapter 12. How to Advance Optimal Style -- Chapter 13. How to Minimize Category II Errors -- Part III. Chapter 14. Part I Primer: The Elements of Document Algorithms -- Chapter 15. Project Proposals -- Chapter 16. Status Reports -- Chapter 17. Project Reports -- Chapter 18. Tech-to-Nontech Briefs -- Chapter 19. Instructional Job Aids -- Chapter 20. Expanding and Innovating Short-Form Documents into Long-Form Documents -- chapter 21. Twenty Universal Features of Excellent Engineering Documents.

Sommario/riassunto

This book presents the generative rules for formal written communication, in an engineering context, through the lens of mathematics. Aimed at engineering students headed for careers in industry and professionals needing a “just in time” writing resource, this pragmatic text covers all that engineers need to become successful workplace writers, and leaves out all pedagogical piffle they do not. Organized into three levels of skill-specific instruction, A Math-Based Writing System for Engineers: Sentence Algebra & Document Algorithms guides readers through the process of building accurate, precise sentences to structuring efficient, effective reports. The book’s indexed design provides convenient access for both selective and comprehensive readers, and is ideal for university students; professionals seeking a thorough, “left -brained” treatment of English grammar and “go to” document structures; and ESL engineers at all levels.