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Record Nr.	UNINA9910962703103321
Autore	Dym Clive L
Titolo	Principles of mathematical modeling
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2004
ISBN	9786610961320
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Edizione	[2nd ed. /]
Descrizione fisica	1 online resource (323 p.)
Disciplina	511/.8
Soggetti	Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Preface; Acknowledgments; Part A: Foundations; 1 What is Mathematical Modeling?; 1.1 Why do we do mathematical modeling?; 1.2 Principles of mathematical modeling; 1.3 Some methods of methematical modeling; 1.4 Summary; 1.5 References; 2 Dimensional Analysis; 2.1 Dimensions and units; 2.2 Dimensional homogeneity; 2.3 Why do we do dimensional analysis?; 2.4 How do we do dimensional analysis?; 2.5 Systems of units; 2.6 Summary; 2.7 References; 2.8 Problems; 3 Scale; 3.1 Abstraction and scale; 3.2 Size and shape: geometric scaling; 3.3 Size and function-I: Birds and flight 3.4 Size and function-II: Hearing and speech3.5 Size and limits: scale in equations; 3.6 Consequences of choosing a scale; 3.7 Summary; 3.8 References; 3.9 Problems; 4 Approximating and Validating MOdels; 4.1 Taylor's formula; 4.2 Algebraic approximations; 4.3 Numerical approximations: significant figures; 4.4 Validating the model-I: How do we know the model is OK?; 4.5 Validating the model-II: How large are the errors?; 4.6 Fitting curves to data; 4.7 Elementary statistics; 4.8 Summary; 4.9 Appendix: Elementary transcendental functions; 4.10 References; 4.11 Problems; Part B: Applications 5 Exponential Growth and Decay5.1 How do things get so out of hand?; 5.2 Exponential functions and their differential equations; 5.3

Sommario/riassunto	Science and engineering students depend heavily on concepts of mathematical modeling. In an age where almost everything is done on a computer, author Clive Dym believes that students need to understand and ""own"" the underlying mathematics that computers are doing on their behalf. His goal for Principles of Mathematical Modeling, Second Edition, is to engage the student reader in developing a foundational understanding of the subject that will serve them well into their careers. The first half of the book begins with a clearly defined set of modeling principles, and then intro

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Autore	Parker Polly
Titolo	Peer Coaching at Work : Principles and Practices
Pubbl/distr/stampa	Redwood City : , : Stanford University Press, , 2018 ©2018
Edizione	[First edition.]
Descrizione fisica	xiv,198 pages
Altri autori (Persone)	HallDouglas T. <1940-> KramKathy E. <1950-> WassermanIlene C
Soggetti	Employees - Coaching of Career development Personnel management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Contents -- Preface and Acknowledgments -- Introduction -- 1. Learning in the VUCA Environment -- 2. Step 1: Build the Developmental Relationship -- 3. Step 2: Hone Relational Practices to Create Success -- 4. Step 3: Make Peer Coaching a Habit -- 5. Peer Coaching Groups -- 6. Peer Coaching for Deep Learning -- 7. Peer Coaching for Everyday Learning -- 8. Cautionary Tales in Peer Coaching -- Conclusions and Going Forward -- Notes -- Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- Q -- R -- S -- T -- U -- V -- W -- Y -- Z.
Sommario/riassunto	Peer coaching, a mentoring process for individuals of equal status, is a highly effective, but underused professional development tool. This book provides the first rigorously researched and road tested three-part model for fostering peer coaching relationships at work.