1. Record Nr. UNINA9910160767603321

Autore	Langtangen Hans Petter
Titolo	Scaling of Differential Equations [[electronic resource] /] / by Hans Petter Langtangen, Geir K. Pedersen
Pubbl/distr/stampa	Cham, : Springer Nature, 2016 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-32726-7
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIII, 138 p. 22 illus.)
Collana	Simula SpringerBriefs on Computing, , 2512-1677 ; ; 2
Disciplina	515.352
Soggetti	Differential equations Partial differential equations Mathematical models Computer mathematics Computer simulation Ordinary Differential Equations Partial Differential Equations Mathematical Modeling and Industrial Mathematics Computational Science and Engineering Simulation and Modeling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- 1 Dimensions and Units -- 2 Ordinary Differential Equations Models -- 3 Basic Partial Differential Equations Models -- Advanced Partial Differential Equations Models -- References -- Index.
Sommario/riassunto	The book serves both as a reference for various scaled models with corresponding dimensionless numbers, and as a resource for learning the art of scaling. A special feature of the book is the emphasis on how to create software for scaled models, based on existing software for unscaled models. Scaling (or non-dimensionalization) is a mathematical technique that greatly simplifies the setting of input parameters in numerical simulations. Moreover, scaling enhances the understanding of how different physical processes interact in a differential equation

	model. Compared to the existing literature, where the topic of scaling is frequently encountered, but very often in only a brief and shallow setting, the present book gives much more thorough explanations of how to reason about finding the right scales. This process is highly problem dependent, and therefore the book features a lot of worked examples, from very simple ODEs to systems of PDEs, especially from fluid mechanics. The text is easily accessible and example-driven. The first part on ODEs fits even a lower undergraduate level, while the most advanced multiphysics fluid mechanics examples target the graduate level. The scientific literature is full of scaled models, but in most of the cases, the scales are just stated without thorough mathematical reasoning. This book explains how the scales are found mathematically. This book will be a valuable read for anyone doing numerical simulations based on ordinary or partial differential equations.

2.	Record Nr.	UNINA9910820501603321
	Autore	Seth <1962->
	Titolo	Seth : conversations / / edited by Eric Hoffman and Dominick Grace
	Pubbl/distr/stampa	Jackson : , : University Press of Mississippi, , [2015] ©2015
	ISBN	1-62674-071-2
	Descrizione fisica	1 online resource (251 p.)
	Collana	Conversations with comic artists series
	Classificazione	LIT017000LCO006000BIO001000
	Disciplina	741.5/971
	Soggetti	Cartoonists - Canada
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Collection of interviews originally published in various sources. Includes index.
	Nota di contenuto	""Cover""; ""Contents""; ""Introduction""; ""Chronology""; ""Interview""; ""Michael Strafford / 1985""; ""An Interview with Seth""; ""Dylan Williams / 1995""; ""An Interview with Seth""; ""Bryan Miller / 2004""; ""Seth Interview""; ""Dave Sim / 2005""; ""Retro Man""; ""Gerald Hannon / 2006""; ""On Cartooning""; ""Rebecca Bengal / 2006""; ""Talking to Seth""; ""Thom Ernst / 2009""; ""Comics Reporter Sunday Interview:

	Seth""; ""Tom Spurgeon /2009""; ""Interview with Seth""; ""Eric Hoffman and Dominick Grace / 2013""; ""Index"";
Sommario/riassunto	"Canadian cartoonist Gregory Gallant, (b. 1962), pen name Seth, emerged as a cartoonist in the fertile period of the 1980s, when the alternative comics market boomed. Though he was influenced by mainstream comics in his teen years and did his earliest comics work on Mister X, a mainstream-style melodrama, Seth remains one of the least mainstream-inflected figures of the alternative comics' movement. His primary influences are underground commix, newspaper strips, and classic cartooning. These interviews, including one career-spanning, definitive interview between the volume editors and the artist published here for the first time, delve into Seth's output from its earliest days to the present. Conversations offer insight into his influences, ideologies of comics and art, thematic preoccupations, and major works, from numerous perspectives--given Seth's complex and multifaceted artistic endeavours. Seth's first graphic novel, It's a Good Life, If You Don't Weaken, announced his fascination with the past and with earlier cartooning styles. Subsequent works expand on those preoccupation and themes. Clyde Fans, for example, balances present-day action against narratives set in the past. The visual style looks polished and contemplative, the narrative deliberately paced; plot seems less important than mood or characterization, as Seth deals with the inescapable grind of time and what it devours, themes which recur to varying degrees in George Sprott, Wimbledon Green, and The Great Northern Brotherhood of Canadian Cartoonists"--

3. Record Nr. UNINA9911053218903321

Titolo	Strategies for Tree Improvement under Stress Conditions
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2023
Descrizione fisica	1 online resource (306 p.)
Soggetti	Biology, life sciences Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Perennial woody plants usually face multifactorial adverse conditions during their long lifespan, which impairs their growth and productivity. To cope with these adverse conditions, trees deploy morphyological, physiological and molecular responses to adapt to the environmental constraints. By using high-throughput sequencing and bioinformatic approaches, many hub genes that are involved in stress response were identified. In recent years, with the advantages of transgenic technology in woody plants, many candidate genes participating in stress responses were functionally characterized and showed great potential for tree improvement under different stresses. On the other hand, cultivation strategies (including beneficial microorganism investigation, beneficial microorganism inoculation, mixed forest and so on) also play crucial roles in tree improvement under abiotic and biotic stress.