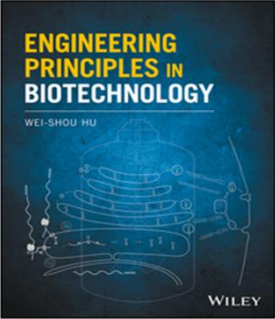
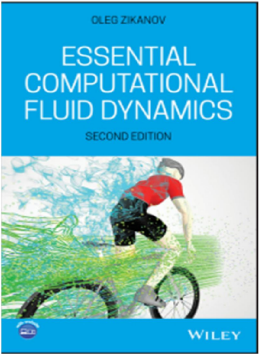
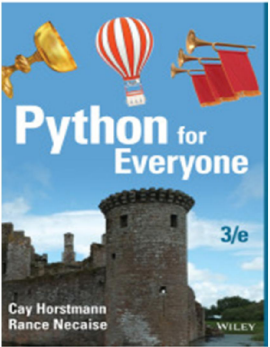


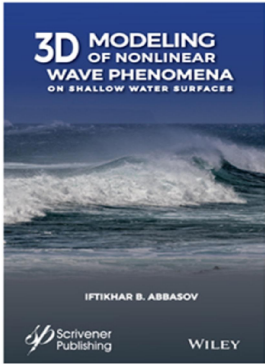
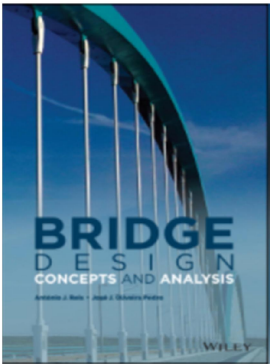
DAFTAR BUKU ELEKTRONIK (E-BOOK) WILEY E-TEXT

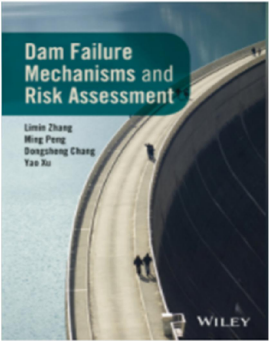

UNTUK : FAKULTAS TEKNIK SIPIL DAN PERENCANAAN


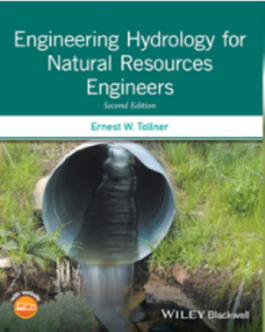
PUBLISHER WILEY

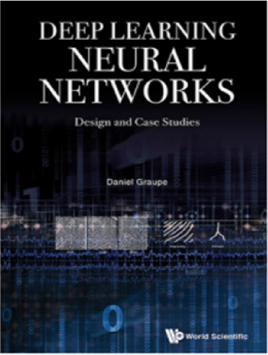
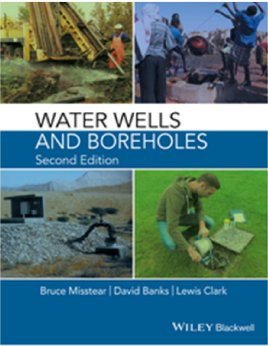
No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
1	Engineering Principles in Biotechnology 	Hu	Wiley	2017	1st ed.	604 hlm.	9781119159049	9781119159025, 1119159024	<p>This book is a short introduction to the engineering principles of harnessing the vast potential of microorganisms, and animal and plant cells in making biochemical products. It was written for scientists who have no background in engineering, and for engineers with minimal background in biology. The overall subject dealt with is process. But the coverage goes beyond the process of biomanufacturing in the bioreactor, and extends to the factory of cell’s biosynthetic machinery. Starting with an overview of biotechnology and organism, engineers are eased into biochemical reactions and life scientists are exposed to the technology of production using cells. Subsequent chapters allow engineers to be acquainted with biochemical pathways, while life scientist learn about stoichiometric and kinetic principles of reactions and cell growth. This leads to the coverage of reactors, oxygen transfer and scale up. Following three chapters on biomanufacturing of current and future importance, i.e. cell culture, stem cells and synthetic biology, the topic switches to product purification, first with a conceptual coverage of operations used in bioseparation, and then a more detailed analysis to provide a conceptual understanding of chromatography, the modern workhorse of bioseparation. Drawing on principles from engineering and life sciences, this book is for practitioners in biotechnology and bioengineering. The author has used the book for a course for advanced students in both engineering and life sciences. To this end, problems are provided at the end of each chapter.</p>	https://bookshelf.vitalsource.com/#/books/9781119159049


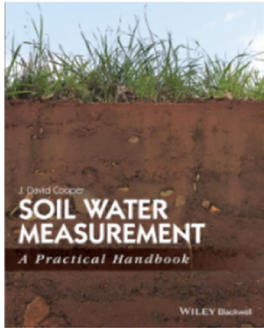
No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
2	Essential Computational Fluid Dynamics, 2nd Edition 	Zikanov	Wiley	2019	2nd ed.	XXI, 356 hlm.	9781119474814	9781119474623, 1119474620	<p>This comprehensively updated new edition covers the fundamental concepts and main methods of modern Computational Fluid Dynamics (CFD). With expert guidance and a wealth of useful techniques, the book offers a clear, concise, and accessible account of the essentials needed to perform and interpret a CFD analysis. The new edition adds a plethora of new information on such topics as the techniques of interpolation, finite volume discretization on unstructured grids, projection methods, and RANS turbulence modeling. The book has been thoroughly edited to improve clarity and to reflect the recent changes in the practice of CFD. It also features a large number of new end-of-chapter problems. All the attractive features that have contributed to the success of the first edition are retained by this version. The book remains an indispensable guide, which: Introduces CFD to students and working professionals in the areas of practical applications, such as mechanical, civil, chemical, biomedical, or environmental engineering</p> <p>Focuses on the needs of someone who wants to apply existing CFD software and understand how it works, rather than develop new codes</p> <p>Covers all the essential topics, from the basics of discretization to turbulence modeling and uncertainty analysis</p> <p>Discusses complex issues using simple worked examples and reinforces learning with problems</p> <p>Is accompanied by a website hosting lecture presentations and a solution manual</p> <p>Essential Computational Fluid Dynamics, Second Edition is an ideal textbook for senior undergraduate and graduate students taking their first course on CFD. It is also a useful reference for engineers and scientists working with CFD applications.</p>	https://bookshelf.vitalsource.com/#/books/9781119474814
3	Python For Everyone, 3rd Edition 	Cay S. Horstmann, Rance D. Necaise	Wiley	2018	3rd ed.	—	9781119498537	9781119498872, 1119498872	<p>Python for Everyone, 3e is an introduction to programming designed to serve a wide range of student interests and abilities, focused on the essentials, and on effective learning. It is suitable for a first course in programming for computer scientists, engineers, and students in other disciplines. The interactive eText requires no prior programming experience and only a modest amount of high school algebra. Objects are used where appropriate in early chapters and students start designing and implementing their own classes in Chapter 9. Practice makes perfect, so each section contains numerous exercises that ask students to carry out progressively more complex tasks: trace code and understand its effects, produce program snippets from prepared parts, and complete simple programs. All eText sections include activities to help students practice programming and build confidence. The interactive practice and review is complemented by open-ended review exercises, programming exercises, and projects. For the first time, instructors can monitor student progress in VitalSource SCORECenter and export grades to their learning management system.</p>	https://bookshelf.vitalsource.com/#/books/9781119498537

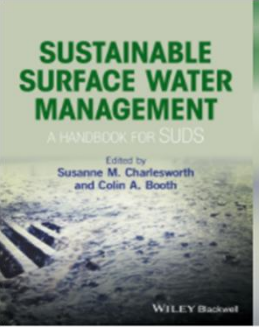
No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
4	3D Modeling of Nonlinear Wave Phenomena on Shallow Water Surfaces 	Iftikhar B. Abbasov	Wiley	2018	1st ed.	–	9781119488217	9781119487968, 111948796X	With climate change, erosion, and human encroachment on coastal environments growing all over the world, it is increasingly important to protect populations and environments close to the sea from storms, tsunamis, and other events that can be not just costly to property but deadly. This book is one step in bringing the science of protection from these events forward, the most in-depth study of its kind ever published. The analytic and numerical modeling problems of nonlinear wave activities in shallow water are analyzed in this work. Using the author’s unique method described herein, the equations of shallow water are solved, and asymmetries that cannot be described by the Stokes theory are solved. Based on analytical expressions, the impacts of dispersion effects to wave profiles transformation are taken into account. The 3D models of the distribution and refraction of nonlinear surface gravity wave at the various coast formations are introduced, as well. The work covers the problems of numerical simulation of the run-up of nonlinear surface gravity waves in shallow water, transformation of the surface waves for the 1D case, and models for the refraction of numerical modeling of the run-up of nonlinear surface gravity waves at beach approach of various slopes. 2D and 3D modeling of nonlinear surface gravity waves are based on Navier-Stokes equations. In 2D modeling the influence of the bottom of the coastal zone on flooding of the coastal zone during storm surges was investigated. Various stages of the run-up of nonlinear surface gravity waves are introduced and analyzed. The 3D modeling process of the run-up is tested for the coast protection work of the slope type construction. Useful for students and veteran engineers and scientists alike, this is the only book covering these important issues facing anyone working with coastal models and ocean, coastal, and civil engineering in this area.	https://bookshelf.vitalsource.com/#/books/9781119488217
5	Bridge Design: Concepts and Analysis 	Antônio J. Reis, João J. Oliveira Pedro	Wiley	2019	–	–	9781118927649	–	A Comprehensive Guide To Bridge Design Bridge Design - Concepts And Analysis Provides A Unique Approach, Combining The Fundamentals Of Concept Design And Structural Analysis Of Bridges In A Single Volume. The Book Discusses Design Solutions From The Authors’ Practical Experience And Provides Insights Into Conceptual Design With Concrete, Steel Or Composite Bridge Solutions As Alternatives. Key Features: Principal Design Concepts And Analysis Are Dealt With In A Unified Approach. Execution Methods And Evolution Of The Static Scheme During Construction Are Dealt With For Steel, Concrete And Composite Bridges. Aesthetics And Environmental Integration Of Bridges Are Considered As An Issue For Concept Design. Bridge Analysis, Including Modelling And Detail Design Aspects, Is Discussed For Different Bridge Typologies And Structural Materials. Specific Design Verification Aspects Are Discussed On The Basis Of Present Design Rules In Eurocodes. The Book Is An Invaluable Guide For Postgraduate Students Studying Bridge Design, Bridge Designers And Structural Engineers.	https://bookshelf.vitalsource.com/#/books/9781118927649

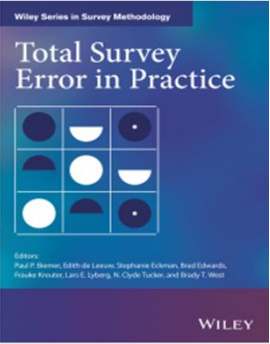
No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
6	Dam Failure Mechanisms and Risk Assessment 	Limin Zhang, Ming Peng, Dongsheng Chang, Yao Xu	Wiley	2017	–	–	9781118558546	–	This Book Integrates The Physical Processes Of Dam Breaching And The Mathematical Aspects Of Risk Assessment In A Concise Manner • The First Book That Introduces The Causes, Processes And Consequences Of Dam Failures • Integrates The Physical Processes Of Dam Breaching And The Mathematical Aspects Of Risk Assessment In A Concise Manner • Emphasizes Integrating Theory And Practice To Better Demonstrate The Application Of Risk Assessment And Decision Methodologies To Real Cases • Intends To Formulate Dam-Breaching Emergency Management Steps In A Scientific Structure	https://bookshelf.vitalsource.com/#/books/9781118558546
7	Design of Joints in Steel and Composite Structures: Eurocode 3: Design of Steel Structures. Part 1-8 Design of Joints. Eurocode 4: Design of Composite Steel and Concrete Structures. Part 1-8 Design of Joints 	Eccs - European	Wiley	2014	–	–	9783433604786	–	This Book Details The Basic Concepts And The Design Rules Included In Eurocode 3 Design Of Steel Structures: Part 1-8 Design Of Joints Joints In Composite Construction Are Also Addressed Through References To Eurocode 4 Design Of Composite Steel And Concrete Structures Part 1-1: General Rules And Rules For Buildings. Attention Has To Be Duly Paid To The Joints When Designing A Steel Or Composite Structure, In Terms Of The Global Safety Of The Construction, And Also In Terms Of The Overall Cost, Including Fabrication, Transportation And Erection. Therefore, In This Book, The Design Of The Joints Themselves Is Widely Detailed, And Aspects Of Selection Of Joint Configuration And Integration Of The Joints Into The Analysis And The Design Process Of The Whole Construction Are Also Fully Covered. Connections Using Mechanical Fasteners, Welded Connections, Simple Joints, Moment-Resisting Joints And Lattice Girder Joints Are Considered. Various Joint Configurations Are Treated, Including Beam-To-Column, Beam-To-Beam, Column Bases, And Beam And Column Splice Configurations, Under Different Loading Situations (Axial Forces, Shear Forces, Bending Moments And Their Combinations). The Book Also Briefly Summarises The Available Knowledge Relating To The Application Of The Eurocode Rules To Joints Under Fire, Fatigue, Earthquake, Etc., And Also To Joints In A Structure Subjected To Exceptional Loadings, Where The Risk Of Progressive Collapse Has To Be Mitigated. Finally, There Are Some Worked Examples, Plus References To Already Published Examples And To Design Tools, Which Will Provide Practical Help To Practitioners.	https://bookshelf.vitalsource.com/#/books/9783433604786

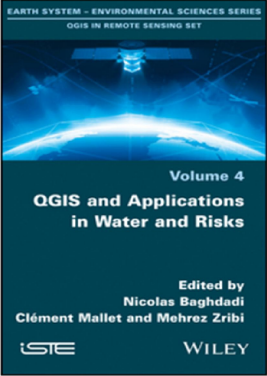

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
8	Design of Steel Structures: Eurocode 3: Design of Steel Structures, Part 1-1: General Rules and Rules for Buildings, 2nd Edition 	Eccs - European	Wiley	2016	2nd ed.	—	9783433031650	—	This Book Introduces The Fundamental Design Concepts Of Eurocode 3 For Steel Structures In Building Construction, And Their Practical Application. Following A Discussion Of The Basis Of Design, Above All The Principles Of The Limit State Approach, The Material Standards And Their Use Are Detailed. The Fundamentals Of Structural Analysis And Modeling Are Presented, Followed By The Design Criteria And Approaches For Various Types Of Structural Members. The Following Chapters Expand On The Principles And Applications Of Elastic And Plastic Design, Each Exemplified By The Step-By-Step Design Calculation Of A Braced Steel-Framed Building And An Industrial Building, Respectively. Besides Providing The Necessary Theoretical Concepts For A Good Understanding, This Manual Intends To Be A Supporting Tool For Practicing Engineers. To That End, Numerous Worked Examples Are Provided Throughout The Book, Concerning The Analysis Of Steel Structures And The Design Of Elements Under Several Types Of Actions. These Examples Facilitate The Application Of Eurocode Regulations In Practice. The Second Edition Contains More Worked Examples And Extended Explications On Issues Like Torsion.	https://bookshelf.vitalsource.com/#/books/9783433031650
9	Engineering Hydrology for Natural Resources Engineers 	Ernest W. Tollner	Wiley	2016	2nd ed.	537 hlm.: illus.	9781118928745	9781118928721, 1118928725	This Fully Revised Edition Provides A Modern Overview Of The Intersection Of Hydrology, Water Quality, And Water Management At The Rural-Urban Interface. The Book Explores The Ecosystem Services Available In Wetlands, Natural Channels And Ponds/Lakes. As In The First Edition, Part I Examines The Hydrologic Cycle By Providing Strategies For Quantifying Each Component: Rainfall (With NOAA 14), Infiltration, Evapotranspiration And Runoff. Part II Examines Field And Farm Scale Water Quality With An Introduction To Erosion Prediction And Water Quality. Part III Provides A Concise Examination Of Water Management On The Field And Farm Scale, Emphasizing Channel Design, Field Control Structures, Measurement Structures, Groundwater Processes And Irrigation Principles. Part IV Then Concludes The Text With A Treatment Of Basin-Scale Processes. A Comprehensive Suite Of Software Tools Is Available For Download, Consisting Of Excel Spreadsheets, With Some Public Domain Models Such As HY-8 Culvert Design, And Software With Public Domain Readers Such As Mathematica, Maple And TK Solver.	https://bookshelf.vitalsource.com/#/books/9781118928745

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
10	Deep Learning Neural Networks: Design And Case Studies 	Graupe Daniel	Wiley	2016	–	xvi, 263 hlm. : ilus. ; 25 cm	9789813146440	9789813146440, 9813146443	Deep Learning Neural Networks is the fastest growing field in machine learning. It serves as a powerful computational tool for solving prediction, decision, diagnosis, detection and decision problems based on a well-defined computational architecture. It has been successfully applied to a broad field of applications ranging from computer security, speech recognition, image and video recognition to industrial fault detection, medical diagnostics and finance. This comprehensive textbook is the first in the new emerging field. Numerous case studies are succinctly demonstrated in the text. It is intended for use as a one-semester graduate-level university text and as a textbook for research and development establishments in industry, medicine and financial research.	https://bookshelf.vitalsource.com/#/books/9789813146440
11	Water Wells and Boreholes, 2nd Edition 	Mistear	Wiley	2016	2nd ed.	–	9781118951682	9781118951705, 1118951700	<i>Water Wells and Boreholes</i> focuses on wells that are used for drinking, industry, agriculture or other supply purposes. Other types of wells and boreholes are also covered, including boreholes for monitoring groundwater level and groundwater quality. This fully revised second edition updates and expands the content of the original book whilst maintaining its practical emphasis. The book follows a life-cycle approach to water wells, from identifying a suitable well site through to successful implementation, operation and maintenance of the well, to its eventual decommissioning. Completely revised and updated throughout, <i>Water Wells and Boreholes</i> , Second edition, is the ideal reference for final-year undergraduate students in geology and civil engineering; graduate students in hydrogeology, civil engineering and environmental sciences; research students who use well data in their research; professionals in hydrogeology, water engineering, environmental engineering and geotechnical engineering; and aid workers and others involved in well projects.	https://bookshelf.vitalsource.com/#/books/9781118951682

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
12	Integrating Work Health and Safety into Construction Project Management 	Helen Lingard, Ron Wakefield	Wiley	2017	—	xiii, 289 hlm. : Ilus., diagram	9781119159957	9781119159926 111915992X	Provides Insights Into How Health And Safety Can Be More Effectively Integrated Into The Procurement, Design, And Management Of Construction Projects This Book Aims To Explore The Ways In Which Technological, Organizational, And Cultural Strategies Can Be Combined And Integrated Into Construction Project Management To Produce Sustained And Significant Health And Safety (H&S) Improvements. It Looks At Design And Safety Practices, Work Organization, Workforce Engagement And Learning, And Offers Ideas For Producing Systemic Change. Integrating Work Health And Safety Into Construction Project Management Addresses How Best To Achieve Safety In Design Through The Adoption Of A Stakeholder Management Approach. It Instructs On How To Drive H&S Improvements Through Supply Chain Integration And Responsible Procurement And Project Management Practices. It Examines The Components Of A Culture For Health And Safety And The Development Of A Cultural Maturity Model. The Book Discusses The Potential To Improve H&S Through The Provision Of Conditions Of Work That Afford Workers A Positive Work-Life Balance. It Also Covers How Advanced Technologies And The Application Of Techniques Developed From Health Informatics Can Support Real Time Analysis And Improvement Of H&S In Construction. Lastly, It Looks At The Benefits Associated With Engaging Workers And Using Their Tacit H&S Knowledge To Inform Work Process Improvements. This Text Also: Provides New And Non-Traditional Ways Of Thinking About H&S Focuses On Technological, Organizational, And Cultural Integration Offers A Multi-Disciplinary Perspective Provided By An Internationally Recognized Research Team From The Social Sciences, Engineering, Construction/Project Management, And Psychology Presents, In Detail, The Collective Analysis From A Broad-Ranging Ten Year Program Of Collaborative Research Contains A Rich Range Of Industry Case Studies Integrating Work Health And Safety Into Construction Project Management Is An Excellent Resource For Academics And Researchers Engaged In Research In Construction H&S, As Well As For Postgraduates Taking Construction Project Management And H&S Courses. It Will Also Be Beneficial To Consultants, Policy Advisors, Construction Project Managers And H&S Professionals.	https://bookshelf.vitalsource.com/#/books/9781119159957
13	Soil Water Measurement: A Practical Handbook 	J. David Cooper	Wiley	2016	—	803 hlm.	9781119106029	—	This Book Is Written For All Those Involved In Measurement Of Soil Water Phenomena, Whether They Be Environmental Scientists, Field Technicians, Agronomists, Meteorologists, Hydrogeologists, Foresters, Physical Geographers, Civil Or Water Engineers Or Students In These Subjects. It Contains A Comprehensive Description Of All The Major Methods Used For Measurement Of Soil Water Content And Potential, Solute Concentration, Transport And Balance Of Water And Solutes, Including Recharge To Groundwater Aquifers. The Emphasis Is Firmly On Techniques Which Can Be Applied In The Field Or On Samples Obtained From The Field. The Theory And Practice Of The Workings Of The Main Instruments And Methods Available Is Described, Along With Practical Tips On Surmounting Some Of The Main Difficulties And Explanations Of Many Commonly Encountered Jargon Words.	https://bookshelf.vitalsource.com/#/books/9781119106029

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
14	Sustainable Surface Water Management: A Handbook for SUDS 	Susanne M. Charlesworth (Editor), Colin A. Booth (Editor)	Wiley	2016	—	xviii, 409 hlm., 4 hlm. tidak bernomor : ilus. (beberapa berwarna); 25 cm	9781118897683	9781118897706 1118897706	Sustainable Surface Water Management: A Handbook For SUDS Addresses Issues As Diverse As Flooding, Water Quality, Amenity And Biodiversity But Also Mitigation Of, And Adaptation To, Global Climate Change, Human Health Benefits And Reduction In Energy Use. Chapters Are Included To Cover Issues From Around The World, But They Also Address Particular Designs Associated With The Implementation Of SUDS In Tropical Areas, Problems With Retrofitting SUDS Devices, SUDS Modelling, Water Harvesting In Drought-Stricken Countries Using SUDS And The Inclusion Of SUDS In The Climate Change Strategies Of Such Cities As Tokyo, New York And Strasbourg.	https://bookshelf.vitalsource.com/#/books/9781118897683

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
15	Total Survey Error in Practice 	Paul P. Biemer (Editor), Edith D. de Leeuw (Editor), Stephanie Eckman (Editor), Brad Edwards (Editor), Frauke Kreuter (Editor), Lars E. Lyberg (Editor), N. Clyde Tucker (Editor), Brady T. West (Editor)	Wiley	2017	1st ed.	xxvii, 593 hlm.	9781119041696	9781119041672, 1119041678	<p>Featuring a timely presentation of total survey error (TSE), this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large-scale data sets - This book provides an overview of the TSE framework and current TSE research as related to survey design, data collection, estimation, and analysis. It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality. The book also addresses issues with data quality in official statistics and in social, opinion, and market research as these fields continue to evolve, leading to larger and messier data sets. This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality. The volume consists of the most up-to-date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields. The chapters are broken out into five main sections: The Concept of TSE and the TSE Paradigm, Implications for Survey Design, Data Collection and Data Processing Applications, Evaluation and Improvement, and Estimation and Analysis. Each chapter introduces and examines multiple error sources, such as sampling error, measurement error, and nonresponse error, which often offer the greatest risks to data quality, while also encouraging readers not to lose sight of the less commonly studied error sources, such as coverage error, processing error, and specification error. The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another, resulting in an estimate with larger total error. This book:</p> <ul style="list-style-type: none">• Features various error sources, and the complex relationships between them, in 25 high-quality chapters on the most up-to-date research in the field of TSE• Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects• Presents examples of recent international events that demonstrate the effects of data error, the importance of survey data quality, and the real-world issues that arise from these errors• Spans the four pillars of the total survey error paradigm (design, data collection, evaluation and analysis) to address key data quality issues in official Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science, public opinion, public policy, and business. It can also be used as a textbook or supplementary material for a graduate-level course in survey research methods.	https://bookshelf.vitalsource.com/#/books/9781119041696

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
16	QGIS and Applications in Water and Risks 	Baghdadi	Wiley-Blackwell	2018	1st ed.	—	9781786302717	9781786302717, 1786302713	Our four volumes propose to present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The four volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.	https://bookshelf.vitalsource.com/#/books/9781786302717
17	Theory And Applications Of Ocean Surface Waves (Third Edition) (In 2 Volumes) 	Mei Chiang C Et Al	Wiley	2018	3rd ed.	2 v., xxix, 1171, 1-7 hlm. : illus. ; 24 cm	9789813147171	9789813147171, 9813147172	This book set is a revised version of the 2005 edition of Theory and Applications of Ocean Surface Waves. It presents theoretical topics on ocean wave dynamics, including basic principles and applications in coastal and offshore engineering as well as coastal oceanography. Advanced analytical and numerical techniques are demonstrated. In this revised version, five chapters on recent developments in linear and nonlinear aspects have been added. The first is on detailed analyses in Wave/Structure Interactions. The second is a new section on Waves through a Marine Forest, a topic motivated by its possible relevance to tsunami reduction. The third is on Long Waves in Shallow Water and the fourth is an update on Broad-Banded Nonlinear Surface Waves in the Open Sea to include new findings in this topic. The fifth is an expanded chapter on Numerical Simulation of Nonlinear Wave Dynamics to include predictions of nonlinear spectral evolution and rogue wave occurrence and dynamics using large-scale phase-resolved simulations. This revised version also includes recent developments in precorrected-FFT accelerated $O(N \log N)$ low- and high-order boundary element methods for the computation of fully nonlinear wave-wave and wave-body interactions. Theory and Applications of Ocean Surface Waves (2016) will be invaluable for graduate students and researchers in coastal and ocean engineering, geophysical fluid dynamicists interested in water waves, and theoretical scientists and applied mathematicians wishing to develop new techniques for challenging problems or to apply techniques existing elsewhere.	https://bookshelf.vitalsource.com/#/books/9789813147171