



Essentials of Offshore Structures: Framed and Gravity Platforms

By D.V. Reddy, A. S. J. Swamidas

Download now

Read Online 

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas

Essentials of Offshore Structures: Framed and Gravity Platforms examines the engineering ideas and offshore drilling platforms for exploration and production. This book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural, fluid, and geotechnical mechanics to offshore structures. It makes available a multitude of "solved problems" and "sample problems to solve" which give readers a strong understanding of the analysis and design of steel-framed and base-supported concrete gravity offshore structures. The book highlights sensible engineering applications for offshore structural design, research, and development; it can also be useful to those working in the design industry.

- The user will have a detailed overview of the various structures used in the offshore environment and the preliminary costing factors that will influence their choice for the site.
- Analytical principles emphasized in the book will help the user to clearly comprehend the various issues that need to be taken into account in the analysis and design of an offshore structure, using the API code.
- The book includes extensive worked-out problems and sample problems for use by the students and instructors, with a Solution Manual.
- The seabed pile/gravity foundation analyses and design are clearly outlined with their embedment characteristics and problems worked out.
- A global description of environmental forces has been given that includes those due to wave, wind, current, tides, earthquakes, ice floe/sheet action, and limit ice-load on Arctic structures.
- The book outlines the various factors that influence the material choice for offshore structures including fatigue and corrosion of the platforms in the ocean environment.

Separate chapters detail the factors that influence the pile embedment and concrete gravity foundation characteristics, material choice including fatigue and corrosion, estimation of ocean environmental forces that will be exerted on the offshore structures, and the analysis fundamentals that the reader needs to

possess. The last two chapters give detailed insights into the analysis and design of framed and concrete gravity platform offshore structures using API code procedures. Overall, this book is a comprehensive presentation of the analysis and design of steel and concrete offshore structures.

 [Download Essentials of Offshore Structures: Framed and Grav ...pdf](#)

 [Read Online Essentials of Offshore Structures: Framed and Gr ...pdf](#)

Essentials of Offshore Structures: Framed and Gravity Platforms

By D.V. Reddy, A. S. J. Swamidas

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas

Essentials of Offshore Structures: Framed and Gravity Platforms examines the engineering ideas and offshore drilling platforms for exploration and production. This book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural, fluid, and geotechnical mechanics to offshore structures. It makes available a multitude of "solved problems" and "sample problems to solve" which give readers a strong understanding of the analysis and design of steel-framed and base-supported concrete gravity offshore structures. The book highlights sensible engineering applications for offshore structural design, research, and development; it can also be useful to those working in the design industry.

- The user will have a detailed overview of the various structures used in the offshore environment and the preliminary costing factors that will influence their choice for the site.
- Analytical principles emphasized in the book will help the user to clearly comprehend the various issues that need to be taken into account in the analysis and design of an offshore structure, using the API code.
- The book includes extensive worked-out problems and sample problems for use by the students and instructors, with a Solution Manual.
- The seabed pile/gravity foundation analyses and design are clearly outlined with their embedment characteristics and problems worked out.
- A global description of environmental forces has been given that includes those due to wave, wind, current, tides, earthquakes, ice floe/sheet action, and limit ice-load on Arctic structures.
- The book outlines the various factors that influence the material choice for offshore structures including fatigue and corrosion of the platforms in the ocean environment.

Separate chapters detail the factors that influence the pile embedment and concrete gravity foundation characteristics, material choice including fatigue and corrosion, estimation of ocean environmental forces that will be exerted on the offshore structures, and the analysis fundamentals that the reader needs to possess. The last two chapters give detailed insights into the analysis and design of framed and concrete gravity platform offshore structures using API code procedures. Overall, this book is a comprehensive presentation of the analysis and design of steel and concrete offshore structures.

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas
Bibliography

- Sales Rank: #1107550 in Books
- Brand: Brand: CRC Press
- Published on: 2013-06-24
- Original language: English
- Number of items: 1

- Dimensions: .60" h x 6.20" w x 9.30" l, .0 pounds
- Binding: Hardcover
- 684 pages

 **Download** [Essentials of Offshore Structures: Framed and Grav ...pdf](#)

 **Read Online** [Essentials of Offshore Structures: Framed and Gr ...pdf](#)

Download and Read Free Online Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas

Editorial Review

Review

"The authors are extremely well known in this subject and have produced an excellent book suitable for students and graduates working in the field of Offshore Structure Design. Chapters 2 and 6 are particularly interesting in the insight they give to the Ocean Environment and Environmental Loading. The book is thoroughly recommended."

—*Professor William Dover, Emeritus Shell Professor, UCL, UK*

About the Author

D. V. Reddy, Ph.D., P.E., P. Eng., C. Eng (U.K.) is a professor of civil, environmental and geomatics engineering, and director, Center for Marine Structures and Geotechnique, Florida Atlantic University, Boca Raton, FL, U.S.A. He has held professorships at the Indian Institute of Technology Madras, Chennai, India; Memorial University of Newfoundland, St. John's, NL, Canada; and University of Florida, Gainesville, FL, U.S.A.; and visiting professorships at a number of universities. He has taught courses on offshore and coastal structures for over 30 years. His research interests are in the areas of marine structures, materials, and geotechnical engineering, with particular focus on concrete technology and computational/analytical mechanics. He is a Fellow of the American Concrete Institute. He has authored over 370 papers, two books, edited three conference volumes; and been recognized by a number of awards.

Dr. A.S.J. Swamidas, **Ph.D.**, has held professorships at the Indian Institute of Technology Madras, Chennai, India; and at Memorial University of Newfoundland, St. John's, NL, Canada. He has taught offshore structures for more than 20 years and acted as a consultant to a number of companies. His research interests are in the area of dynamics of offshore and onshore structures. He has authored over 210 papers/reports, and edited two conference volumes.

Users Review

From reader reviews:

Minerva Garrison:

Do you have favorite book? For those who have, what is your favorite's book? E-book is very important thing for us to learn everything in the world. Each reserve has different aim or maybe goal; it means that guide has different type. Some people feel enjoy to spend their a chance to read a book. They may be reading whatever they have because their hobby is reading a book. Why not the person who don't like examining a book? Sometime, particular person feel need book once they found difficult problem or perhaps exercise. Well, probably you will require this Essentials of Offshore Structures: Framed and Gravity Platforms.

Elaine Sitz:

Beside this particular Essentials of Offshore Structures: Framed and Gravity Platforms in your phone, it could possibly give you a way to get closer to the new knowledge or facts. The information and the knowledge you may get here is fresh through the oven so don't possibly be worry if you feel like an aged people live in narrow small town. It is good thing to have Essentials of Offshore Structures: Framed and Gravity Platforms because this book offers to you readable information. Do you at times have book but you do not get what it's all about. Oh come on, that will not happen if you have this with your hand. The Enjoyable agreement here cannot be questionable, such as treasuring beautiful island. So do you still want to miss the idea? Find this book as well as read it from right now!

Willie Batres:

On this era which is the greater man or who has ability to do something more are more important than other. Do you want to become one of it? It is just simple method to have that. What you must do is just spending your time not very much but quite enough to possess a look at some books. On the list of books in the top checklist in your reading list will be Essentials of Offshore Structures: Framed and Gravity Platforms. This book and that is qualified as The Hungry Slopes can get you closer in getting precious person. By looking upward and review this e-book you can get many advantages.

Norbert Walling:

As we know that book is essential thing to add our knowledge for everything. By a e-book we can know everything we wish. A book is a group of written, printed, illustrated or blank sheet. Every year ended up being exactly added. This guide Essentials of Offshore Structures: Framed and Gravity Platforms was filled in relation to science. Spend your time to add your knowledge about your research competence. Some people has distinct feel when they reading the book. If you know how big selling point of a book, you can really feel enjoy to read a guide. In the modern era like currently, many ways to get book that you wanted.

**Download and Read Online Essentials of Offshore Structures:
Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas
#LM0VCG2POD7**

Read Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas for online ebook

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas books to read online.

Online Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas ebook PDF download

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas Doc

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas Mobipocket

Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas EPub

LM0VCG2POD7: Essentials of Offshore Structures: Framed and Gravity Platforms By D.V. Reddy, A. S. J. Swamidas