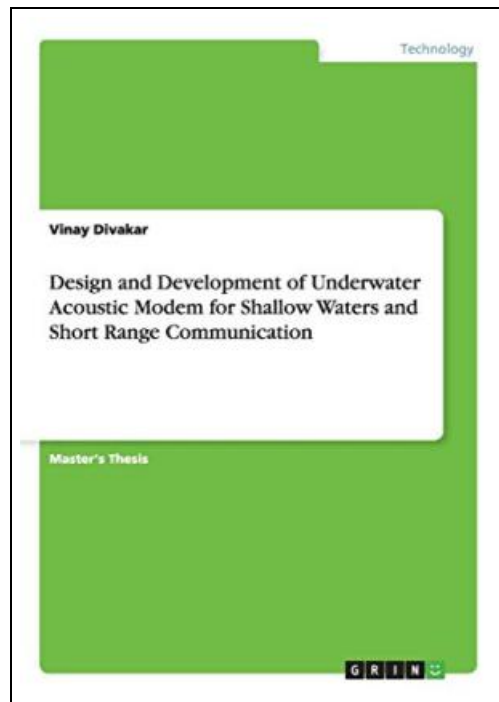


## Design and Development of Underwater Acoustic Modem for Shallow Waters and Short Range Communication



Filesize: 2.29 MB

### **Reviews**



*Most of these pdf is the ideal pdf available. It is definitely basic but shocks within the 50 percent of your book. I am just easily could get a delight of reading through a written book.*  
(Jany Crist)

## DESIGN AND DEVELOPMENT OF UNDERWATER ACOUSTIC MODEM FOR SHALLOW WATERS AND SHORT RANGE COMMUNICATION



To get **Design and Development of Underwater Acoustic Modem for Shallow Waters and Short Range Communication** eBook, remember to follow the hyperlink listed below and save the ebook or gain access to other information that are related to DESIGN AND DEVELOPMENT OF UNDERWATER ACOUSTIC MODEM FOR SHALLOW WATERS AND SHORT RANGE COMMUNICATION book.

GRIN Verlag Sep 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Master's Thesis from the year 2014 in the subject Engineering - Naval Engineering, Ocean Engineering, , course: Electronics Systems Design, language: English, abstract: The existing underwater acoustic modems are designed for deep oceans and long range communication leading to immense consumption of power and high cost. These long range underwater acoustic modems are not suitable choice for deployment in underwater sensor networks, Hence the problem was chosen to design and develop a underwater acoustic modems that operates in shallow waters of depth below 100m and for a short range of below 100 m. Underwater wireless sensor network is contemporary technology that can be applied in the fields of security, surveillance, military, commercial, industrial and environmental. The major drawback is that the traditional underwater acoustic modems cannot be deployed for underwater sensor networks. This work focusses on the research and development of the underwater acoustic modem for shallow waters and short range communication. The relevant background theory required understand acoustics and for modelling the unique characteristics of the underwater channel is described in detail. Different concepts to model and implement the functionalities of the transmitter and receiver were explored, while converging to the most suitable choice of concepts. The modelled system is simulated for different channel conditions such as depth, range and induced ambient noise. The results were analysed in order to conclude the performance outcome of the system. The modelled system can efficiently operate for a depth of 30m, 50m and 70m for a range up to 50m. The hardware was developed using minimum number of components as a proof of concept for efficient data transmission and reception using acoustic signals. The hardware was tested to operate efficiently in air, however hardware tests for underwater is suggested for future work,...

-  [Read Design and Development of Underwater Acoustic Modem for Shallow Waters and Short Range Communication Online](#)
-  [Download PDF Design and Development of Underwater Acoustic Modem for Shallow Waters and Short Range Communication](#)

## You May Also Like



[PDF] **Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph**

Follow the hyperlink beneath to download "Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph" PDF file.

[Save Document »](#)



[PDF] **Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Follow the hyperlink beneath to download "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF file.

[Save Document »](#)



[PDF] **Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America**

Follow the hyperlink beneath to download "Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America" PDF file.

[Save Document »](#)



[PDF] **Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success**

Follow the hyperlink beneath to download "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" PDF file.

[Save Document »](#)



[PDF] **Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Follow the hyperlink beneath to download "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" PDF file.

[Save Document »](#)



[PDF] **Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age**

Follow the hyperlink beneath to download "Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age" PDF file.

[Save Document »](#)