

#### "TSSM'S"

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3.3.2

- 3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years
- 3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

#### **HEI Input:**

2022-23	2021-22	2020-21	2019-20	2018-19
4	4	9	1	0

#### **DVV Clarification:**

• Cover page, content page and first page of the selected publication.

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Baydhan, Pune-411021



Web-link of books



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**HEI Response:** 

As per DVV suggestion supporting Documents are attached

**Supporting Documents:** 

Dr.R.S.Pawar
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Baydhan, Pune-411021



	Annexures							
Annexures No	Description	Link	Digital page No					
Annexures-1	Link landing to the research paper	Annexures I	03					

Dr.R.S.Pawar

PRIPTING DAL

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Annexure- I: Cover page, content page and first page of the selected publication with weblink of Books.

Sr. No	Name of the teacher	Title of the book/ chapters published	Title of thepaper	Title of the proceedingsof the conference	Name of the conference	National/ International	publi	ISBN number of the proceedin g		Digital Page No
1	Dr. R S Pawar	Internationa I conference on Mechanical Engineering, NIT Warangal	Studies of surface characterization on of finished hobbed gear	International conference on Mechanical Engineering, NIT Warangal	ICMech-REC2023	International	2023	-	https://link.springer.com/bo ok/9789819709175	1
2	Dr. R S Pawar	-	Design and testing of composite materials T joint for Naval ship using FEA	IECIPBES-2023	IECIPBES-2023	National / International	2023	-	https://ijsrst.com/IJSRST1013 21	2

Dr.R.S.Pawar
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3	Dr. R S Pawar	-	Adsorption	-	First	International	2023	-	https://www.atlantis-	<u>3</u>
			Study of		International				press.com/proceedings/acv	
			Carbon		Conference on				ait-22/125989821	
			Monoxide on		Advances in					
					Computer Vision					

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PRI Principal
Padmabhooshan Vasantdada Patil
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			Modified Metal and Non- metallic Surface UsingDensity Functional Theory: A Short ReviewTowards Functional Materials		and Artificial Intelligence Technologi es (ACVAIT 2022)					
4	Kamble Raju D	-	Equalizer based PlasticOptical FiberLinks	IEEE International Conference on Signal Processing and Communications	SPCOM	International	2023	978-1-6654- 8251-6	https://doi.org/10.1109 /S PCOM55316.2022.9840 8 29	4
5	Kamble Raju D	-	Impact of Component Sensitivity on Biquad	International Conference for Adancement in Technology,	ICAT	International	2022	978-1-6654- 7518-1	https://doi.org/10.1109 /I CONAT57137.2023.100 80782	5
6	Prof.Pr achi Thakar	Search Algorithm- Essence Of Optimization.	An Adaptive Task Scheduling InFog Computing	Scopus Journal	Scopus Journal	National	2022	Nill	https://www.intechopen.c om/chapters/84920	6





7	Dr. R S	-	Design and	International E-	International	International	2022	ISSN: 2278-	https://ijsrst.com/IJSRST1	8
	Pawar		Testing of	Conference on	E- Conference			0181	<u>01321</u>	
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			Using FEA	Science" In	Engineering					
			and	Association with	Science" In					
			Experimental	International	Association					
			Technique	Journal of	with Journal of					
				Scientific	Scientific					
					Research					





				Research in Science and Technology	in Science and Technology					
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9	Dr.R.R.Sorate	Geotechn ical Engineeri ng	-	-	-	-	2021	9789390596 591	-	10
10	Dr.R.R.Sorate	Foundation Engineering	-	-	-	-	2021	9789354516 931	-	11
11	Dr.R.R.Sorate	Fluid Mechanics	-	-	-	-	2021	978- 9351646150	-	12
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13	Prof.V.D. Jaysingpu re	-	Advances in Construction Technology and Management	Advances in Construction Technology and Management	TEQQIP-III Sponsored Internatio nal Conferenc e	International	2021	-	-	-

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14	Jaysingpu re	-	Biogas generation through anaerobic digestion of organic waste : review	Biogas generation through anaerobic digestion of organic waste: review	ACTM-2021- International conference COEP,Pune 2021	International	2021	-	https://www.researchgate .n et/publication/363917072 - Biogas Generation Throu gh Anaerobic Digestion of Organic Waste A Review	13
15	Prof.V.D. Jaysingpu re	Hydrology and Water Resource Engineering	-	-	-	-	2021	-	-	14
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PRINCIPAL
Padmabhooshan Vasantdada Patil
Institute of Technology
Bavdhan, Pune-411021





# NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL



Department of Mechanical Engineering ICMech-REC-2023 Certificate

This is to certify that Govind Shantaram Dhage, Dr R.S.Pawar and Mr Jotiba Patil has presented a paper entitled as "Studies of Surface Tharacteristics of Finish Hobbed Gear-Review" in 1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges -2023 conducted by National Institute of Technology Warangal, Telangana from 23-25 June, 2023.

Prof. K Madhu Murthy Convener Prof. Suresh Babu V Chairman Prof. Bidyadhar Subudhi Director





International E-Conference on "Interdisciplinary Perspective of Basic and Engineering Science" In Association with International Journal of Scientific Research in Science and Technology Volume 10 | Issue 13 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijsrst.com)

# Design and Testing of Composite Material T-Joint for Naval Ship Using FEA Sachin S. Yadav<sup>1</sup>, R.S. Pawar<sup>2</sup>, Sushil V. Deshpande<sup>3</sup>

<sup>1</sup>Genba Sopanrao Moze College of Engineering, Balewadi, Pune & 411045, Maharashtra, India <sup>2</sup>Padmabhooshan Vasantdada Patil Institute of Technology, Bavdhan, Pune & 411021, Maharashtra, India <sup>3</sup>Dr.DY Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune & 411018, Maharashtra, India

#### ABSTRACT

The preeminent defect that occurs in composite t-joint is the undefined failure at the joint which is the only complex part of the composite structure. Many researchers have done most of the studies to analyse how the t-joint fails and the failure conditions. Many attempts have been made to overcome this problem by CFD or by Finite Element Analysis approach to composite structure, but there is ample scope for modelling composite t-joint and the use of composite materials. The process to manufacture composite structures is a bit complex and requires skills. Composite t-joint is mainly crafted by casting or hand lay-up technique. The sandwich core is which supporting part is built by coating the PVC with glass fiber and epoxy resin. The resin binds with the glass fiber which eventually increases the stiffness of the PVC foam bond. Lamination of the core parts is a critical part in manufacturing of sandwich core. The adhesion of the resin should be strong enough to hold the structure together. The t-joint mainly fails due to the delamination of the core parts. Different angles are provided to the model to test which holds good to expectations. There is a need for lots of modification in modelling for the enhancement of the future of composite structures. The studies on different parameters and defects in composite T-Joint structures are widely used in superstructures, decks, bulkheads, advanced mast sensor systems, propellers, aircraft carriers, propulsion shafts, pipe, pumps, valves, machinery, etc. Four different categories have been distinguished to study defects in composite T-Joint and the effect of various parameters

Keywords: Composite Material, Design, Material selection and FEA of Composite T-Joint

#### I. INTRODUCTION

The purpose of the project is to determine the methodology to predict the damage criticality of a composite marine structure T-joint. This knowledge will enable the prediction of the life and reliability of the structure. To acquire this, it is very useful to do the preliminary design using a FE package. The FE tool has been proved useful in predicting the behavior of composite structures. It allows for cost savings by reducing the amount of required experimental works. The FE prediction methodology is very commonly used on composite structures for not only marine structures but also for aerospace applications. Since last decade, with the advent of powerful finite element analysis (FEA) packages, these have been proven good tool to perform accurate



#### Adsorption Study of Carbon Monoxide on Modified Metal and Non-metallic Surface Using Density Functional Theory: A Short Review Towards Functional Materials

Amogh A. Sambare<sup>1(№)</sup>, Kunal P. Datta<sup>1</sup>, Mahendra D. Shirsat<sup>2</sup>, Bharti W. Gawali<sup>1,3</sup>, and Ramkisan S. Pawar<sup>4</sup>

- Deen Dayal Upadhyay KAUSHAL Kendra, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India amoghsambare@gmail.com
- <sup>2</sup> RUSA Centre for Advance Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India
- <sup>3</sup> Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India
- <sup>4</sup> Shreeyash College of Engineering and Technology, Aurangabad, Maharashtra, India

Abstract. Carbon Monoxide is an established pollutant with high indexed hazard potential for human being and environment and its omnipresence in indoor and outdoor air, has garnered specific research interest for real time detection of the same at trace level of existence. Extensive spectrum of research for development of Carbon Monoxide sensors are therefore being carried out and pursuit for efficient and smart materials constitute the core of such research efforts. The most common technique of sensing these gas molecules is to detect them with various adsorption materials, such as metal, semi-conductor metal oxides like MnO2, MoS2, and carbon-based materials, among others. Doping transition metal atoms in adsorbent materials has also been shown to be beneficial in the gas adsorption process. In order to have a predictive command over development of smart functional materials for detection of Carbon Monoxide, the Density Function Theory calculation is still a time-tested tool for analyzing the adsorption properties of pollutant molecules on various materials at the microscale levels to comprehend adsorptive reactions, adsorbents reactivity, and structure activity relationships, that can provide theoretical guidance for scientific experiments. This review presents the adsorption models and surface properties of CO gas molecules on metal and nonmetallic surfaces by Density Function Theory calculations in recent years. This review opens up the theoretical background for DFT based molecular adsorption studies and some of the recent reports of research pertinence.

Keywords: DFT · Carbon Monoxide · Functional Materials



## Biquad filter based equalization for PMMA SI-POF links

Publisher: IEEE

Cite This

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Raju D. Kamble; Kumar Appaiah All Authors

49

Full

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#### Abstract

#### **Document Sections**

- I. Introduction
- II. Link Implementation
- III. Bi-Quadratic Equalization
- IV. Impulse Response of the Fiber

V. Experimental Analysis

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Authors

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Keywords

Metrics

#### Abstract:

This paper proposes the use of an analog biquad filter as an equalizer for PMMA based step index plastic optical fiber (POF) links. We show both theoretically and experimentally that this approach achieves 100 Mbit/s over for 100 m of fiber. The material properties of the POF channel causes significant intersymbol interference SNR degradation for long link lengths. The use of DSP based equalization, while effective, imposes significant additional complexity. We propose the design and implementation of an analog biquad filter that is tuned using fiber modeling to effectively compensate the dispersive limitations. We show experimentally that the designed filter is able to successfully overcome the dispersion limits over a large range of fiber lengths and data rates.

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Publisher: IEEE

Conference Location: Bangalore, India

## Impact of Component Sensitivity on Biquad Equalizer based Plastic Optical Fiber Links

Publisher: IEEE

Cite This



Raju Dinkar Kamble; Kumar Appaiah All Authors

21 Full Text Views











#### Abstract

#### **Document Sections**

- I. Introduction
- II. System Model
- III. Biquad Filters As Equalizers
- IV. Simulation Results
- V. Conclusion

Authors

Figures

References

Keywords

#### Abstract:

Plastic optical fibers (POFs) offer a robust solution for short reach high speed optical fiber links. However, data rates in POFs are significantly limited due to dispersion, and digital equalization may impose higher complexity of implementation. Analog equalizers possess much lower complexity, although they are sensitive to component variations that cause them to deviate from their designed operational parameters. In this paper, we conduct a sensitivity analysis of biquad equalizer based POF links, and quantity the impact of component variations on the bit error rate (BER) of such links. Via detailed simulations, we find that the degradation in BER due to component variations is limited to less than 2 dB.

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Date of Conference: 24-26 January 2023 DOI: 10.1109/ICONAT57137.2023.10080782

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#### Chapter

# An Adaptive Task Scheduling in Fog Computing

Dinesh G. Harkut, Prachi Thakar and Lovely Mutneja

#### Abstract

Internet applications generate massive amount of data. For processing the data, it is transmitted to cloud. Time-sensitive applications require faster access. However, the limitation with the cloud is the connectivity with the end devices. Fog was developed by Cisco to overcome this limitation. Fog has better connectivity with the end devices, with some limitations. Fog works as intermediate layer between the end devices and the cloud. When providing the quality of service to end users, scheduling plays an important role. Scheduling a task based on the end users requirement is a tedious thing. In this paper, we proposed a cloud-fog task scheduling model, which provides quality of service to end devices with proper security.

Keywords: ANN, fuzzy logic, fog computing, IoT, QoS, K-means clustering

#### 1. Introduction

Cloud computing is very popular in the technology world as it provides numerous useful services to end users. Cloud computing is based heavily on virtualization technology. Cloud computing provides many features such as huge processing power, great storage provision, and pay-per-use model. Cloud computing has many desirable features such as flexibility, scalability, performance-cost efficiency, and ease of test, adopting and deploying new technologies [1].

In spite of all these services, there are some drawbacks of cloud computing that cannot be ignored. For examples, the cloud and users are physically far away from each other that induce intolerably delay, again there can be a shortage of resources for executing the tasks, many resources could remain idle even though tasks need to be processed, etc. [1].

Internet of Things (IoT) is an emerging technology. It requires latency-aware computation for real-time application processing. In IoT environments, devices connected to it generate a huge amount of data, which are generally referred to as big data. IoT devices generated data are generally processed in a cloud infrastructure because of the on-demand services and scalability features of the cloud computing. However, processing IoT application requests on the cloud is not an efficient solution for some IoT applications, especially time-sensitive ones. To address this issue, Fog computing, which is a middle layer between cloud and IoT devices, was proposed. In Fog computing environment, IoT devices are connected to Fog devices. These Fog devices are located in close proximity as compared to cloud to users and are responsible for intermediate computation and storage [2].

There are many challenges when we are working in fog computing environment. One of the challenges is task scheduling. Tasks are broadly classified into two





International E-Conference on "Interdisciplinary Perspective of Basic and Engineering Science" In Association with International Journal of Scientific Research in Science and Technology Volume 10 | Issue 13 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijsrst.com)

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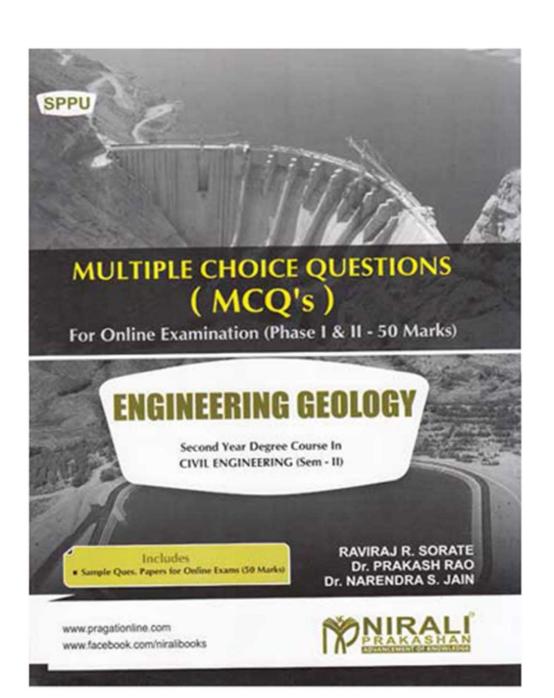
#### ABSTRACT

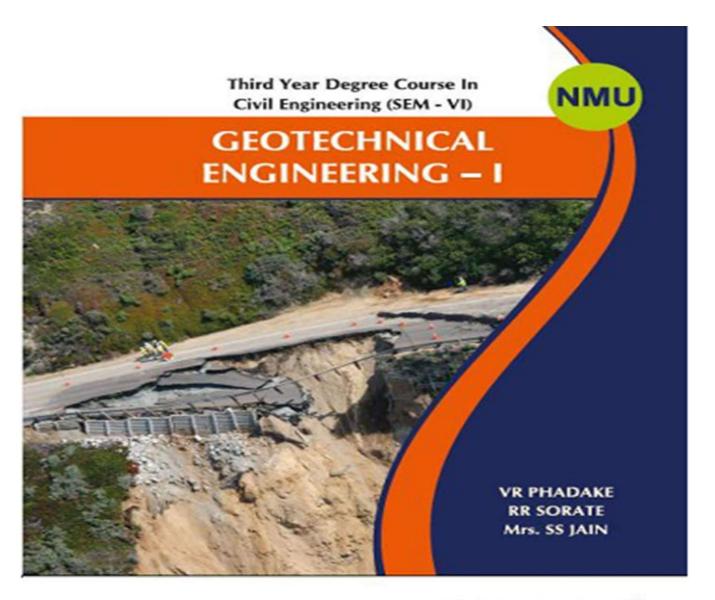
The preeminent defect that occurs in composite t-joint is the undefined failure at the joint which is the only complex part of the composite structure. Many researchers have done most of the studies to analyse how the t-joint fails and the failure conditions. Many attempts have been made to overcome this problem by CFD or by Finite Element Analysis approach to composite structure, but there is ample scope for modelling composite t-joint and the use of composite materials. The process to manufacture composite structures is a bit complex and requires skills. Composite t-joint is mainly crafted by casting or hand lay-up technique. The sandwich core is which supporting part is built by coating the PVC with glass fiber and epoxy resin. The resin binds with the glass fiber which eventually increases the stiffness of the PVC foam bond. Lamination of the core parts is a critical part in manufacturing of sandwich core. The adhesion of the resin should be strong enough to hold the structure together. The t-joint mainly fails due to the delamination of the core parts. Different angles are provided to the model to test which holds good to expectations. There is a need for lots of modification in modelling for the enhancement of the future of composite structures. The studies on different parameters and defects in composite T-Joint structures are widely used in superstructures, decks, bulkheads, advanced mast sensor systems, propellers, aircraft carriers, propulsion shafts, pipe, pumps, valves, machinery, etc. Four different categories have been distinguished to study defects in composite T-Joint and the effect of various parameters

Keywords: Composite Material, Design, Material selection and FEA of Composite T-Joint

#### I. INTRODUCTION

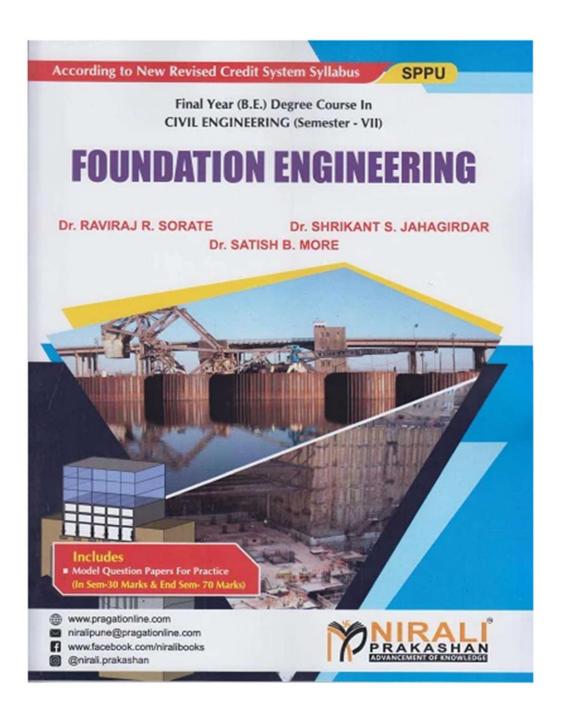
The purpose of the project is to determine the methodology to predict the damage criticality of a composite marine structure T-joint. This knowledge will enable the prediction of the life and reliability of the structure. To acquire this, it is very useful to do the preliminary design using a FE package. The FE tool has been proved useful in predicting the behavior of composite structures. It allows for cost savings by reducing the amount of required experimental works. The FE prediction methodology is very commonly used on composite structures for not only marine structures but also for aerospace applications. Since last decade, with the advent of powerful finite element analysis (FEA) packages, these have been proven good tool to perform accurate

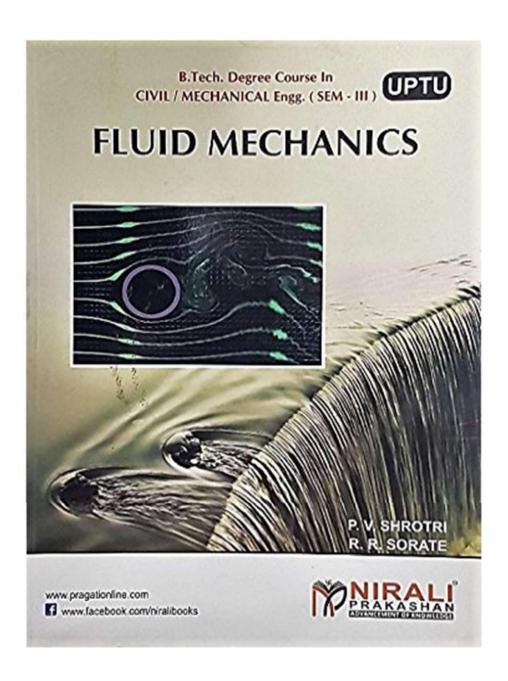












## Chapter

# Biogas Generation Through Anaerobic Digestion of Organic Waste: A Review

September 2022

DOI:10.1007/978-981-19-2145-2 49

In book: Recent Trends in Construction Technology and Management (pp.641-649)

#### Authors:



Vaishali Dinesh Jaysingpure College of Engineering, Pune

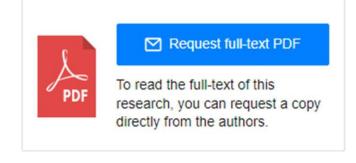


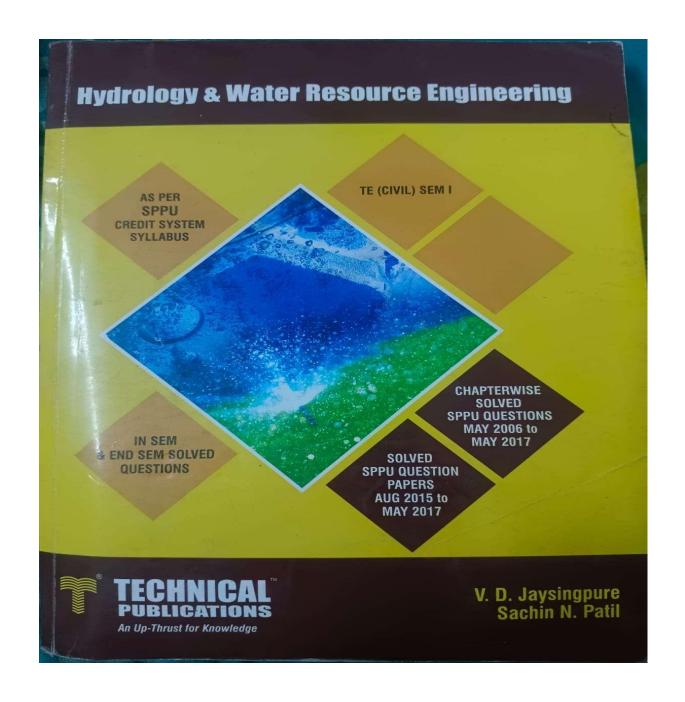
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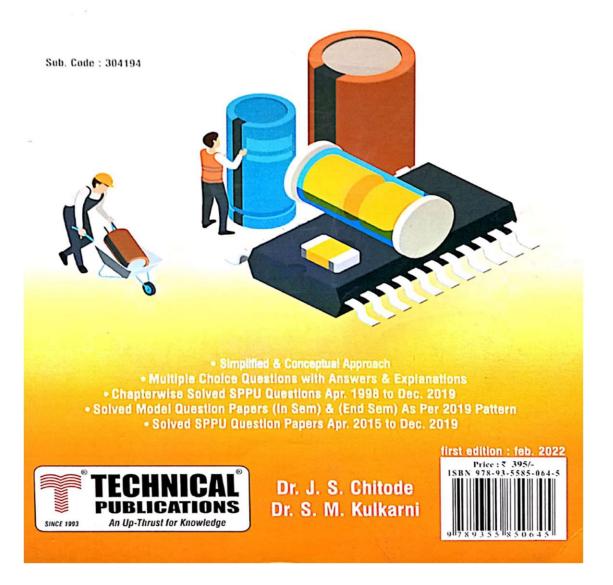


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# **Power Devices & Circuits**

SPPU CBCS SCHEME - COURSE 2019 - T.E. (E&TC) - SEM - VI



SUBJECT CODE: 304194



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Choice Based Credit System (CBCS) T.E. (E & Tc) Semester - VI

# Power Devices & Circuits

Dr. J. S. Chitode

M.E. (Electronics), Ph.D.
Formerly Professor & Head,
Department of Electronics Engineering
Bharati Vidyapeeth Deemed University
College of Engineering, Pune

#### Dr. S. M. Kulkarni

Ph. D. (ECE)
Associate Professor (E&Tc),
TSSM'S Padmabhooshan Vasant Dada Patil Institute of Technology,
Pune



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#### TEXT BOOKS FOR T.E. (E&TC) SEM VI

#### Compulsory Subjects

- 1. Cellular Networks (v. s. Bogod)
- 2. Project Management (Rana S. Mahajan, Dr. Dipak P. Patil, Dr. Manoj V. Bhalerao)
- 3. Power Devices & Circuits (Dr. J. S. Chitode, Dr. S. M. Kulkami)

#### Elective Subjects

- 4. Digital Image Processing
- 5. Sensors in Automation
- 6. Advanced JAVA Programming (A. A. Puntambekar, Santash B. Dhekale)
- 7. Embedded Processors
- 8. Network Security (v. s. Bogod, I. A. Dhotre)

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