

Accredited by NAAC with 'A' Grade & NBA and



DEPARTMENT OF ECTRONICS AND COMMUNICATION ENGINEERING

LAB MANUAL

ANALOG COMMUNICATIONS LAB

Analog Communication Lab Manual Pune

K. Chandrashekhar

Analog Communication Lab Manual Pune:

Analog Communications, Volumes 1, 2 and 3: Instructor's Guide Lab-Volt (Québec) Ltd,1987 Analog **Communications** Kasturi Vasudevan, 2020-08-14 This textbook covers the fundamental concepts of analog communications with a Q A approach It is a comprehensive compilation of numerical problems and solutions covering all the topics in analog communications Richly illustrated with figures this book covers the important topics of signals and systems random variables and random processes amplitude modulation frequency modulation pulse code modulation and noise in analog modulation It has numerical questions and their solutions clearing the concepts of Fourier transform Hilbert transform modulation synchronization signal to noise ratio analysis and many more All the solutions have step by step approach for easy understanding This book will be of great interest to the students of electronics and electrical communications engineering IEEE Membership Directory Institute of Electrical and Electronics Engineers, 2001 Analog communication lab + LIC lab K. Chandrashekhar, 2012 Resources in Education ,1982 Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12 U.S. Government Research & Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis **Development Reports** ,1969 Who's Who, 2007-12 An Introduction to Analog and Digital Communications Simon Who's who in the West ,1999 Haykin, Michael Moher, 2012-04-13 The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information bearing signals While it covers analog communications the emphasis is placed on digital technology. It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system Readers will next learn about electrical noise and then progress to multiplexing and multiple access techniques **Solutions Manual for Modern Digital and Analog Communication Systems Fourth Edit** B. P. Lathi, 2009-03-08 The Photonics Directory Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09 Indian Books in Print .2001 **ANALOG COMMUNICATION** TOMAR. GEETAM SINGH ,BAGWARI, ASHISH, 2016-02-25 This book carries a holistic approach on the analog communication with all the basic concepts pertaining to the subject described in it The text provides an incisive insight into the subject via simple elegant and explicit presentation Organised in ten chapters the book dexterously assimilates the various terms and techniques used in analog communication to enhance a broader understanding of the concepts and their applications Commencing with the basic introduction the book goes on to provide description on analog amplitude modulation single sideband modulation analog angle modulation pulse modulation digital transmission of analog signals and multiplexing Finally it discusses about noise random signal and processes information theory and coding and communication detectors and filters The background of each topic in the book is prepared sensibly by providing suitable illustrations numerical examples detailed explanation of

each step given thereby making the understanding of complicated derivations easier This well structured book is specifically

written for the undergraduate students of electronics and communication engineering and postgraduate students of electronics Modern Digital and Analog Communication Systems Bhagwandas Pannalal Lathi,1983 This book presents a treatment of modern digital and analog communication systems The basics of communication systems without using probabilistic concepts are introduced first Solutions Manual for Lathi B. P. Lathi,Phong Vu Dao,Yuzon Hao,Borong Wang,1989 Analog and Digital Communication Lab Jai Agrawal,2015-04-09 This lab book is intended for the Junior senior engineering Technology students This book should accompany regular textbook in analog and digital communication The lab exercises use MATLAB SIMULINK Arduino Uno and employs hardware circuits Solutions Manual for Modern Digital and Analog Communication Systems B. P. Lathi,2000 This third edition has been revised to include expanded coverage of digital communications New topics include spread spectrum systems cellular communication systems global positioning systems GPS and a chapter on emerging digital technologies such as SONET ISDN and video compression Analog

Communications: Instrumentation Lab-Volt ltée,1984

Eventually, you will certainly discover a further experience and success by spending more cash. nevertheless when? attain you tolerate that you require to get those all needs similar to having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will guide you to understand even more going on for the globe, experience, some places, behind history, amusement, and a lot more?

It is your utterly own get older to accomplishment reviewing habit. in the middle of guides you could enjoy now is **Analog Communication Lab Manual Pune** below.

https://legacy.tortoisemedia.com/results/scholarship/Documents/2005_arctic_cat_250_300_400_500_650_atv_service_repair_manual.pdf

Table of Contents Analog Communication Lab Manual Pune

- 1. Understanding the eBook Analog Communication Lab Manual Pune
 - The Rise of Digital Reading Analog Communication Lab Manual Pune
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Analog Communication Lab Manual Pune
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analog Communication Lab Manual Pune
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Analog Communication Lab Manual Pune
 - Personalized Recommendations
 - Analog Communication Lab Manual Pune User Reviews and Ratings
 - Analog Communication Lab Manual Pune and Bestseller Lists

- 5. Accessing Analog Communication Lab Manual Pune Free and Paid eBooks
 - Analog Communication Lab Manual Pune Public Domain eBooks
 - Analog Communication Lab Manual Pune eBook Subscription Services
 - Analog Communication Lab Manual Pune Budget-Friendly Options
- 6. Navigating Analog Communication Lab Manual Pune eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Analog Communication Lab Manual Pune Compatibility with Devices
 - Analog Communication Lab Manual Pune Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analog Communication Lab Manual Pune
 - Highlighting and Note-Taking Analog Communication Lab Manual Pune
 - Interactive Elements Analog Communication Lab Manual Pune
- 8. Staying Engaged with Analog Communication Lab Manual Pune
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analog Communication Lab Manual Pune
- 9. Balancing eBooks and Physical Books Analog Communication Lab Manual Pune
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Analog Communication Lab Manual Pune
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analog Communication Lab Manual Pune
 - Setting Reading Goals Analog Communication Lab Manual Pune
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analog Communication Lab Manual Pune
 - Fact-Checking eBook Content of Analog Communication Lab Manual Pune
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Analog Communication Lab Manual Pune Introduction

In todays digital age, the availability of Analog Communication Lab Manual Pune books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Analog Communication Lab Manual Pune books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Analog Communication Lab Manual Pune books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Analog Communication Lab Manual Pune versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Analog Communication Lab Manual Pune books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Analog Communication Lab Manual Pune books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Analog Communication Lab Manual Pune books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions

of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Analog Communication Lab Manual Pune books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Analog Communication Lab Manual Pune books and manuals for download and embark on your journey of knowledge?

FAQs About Analog Communication Lab Manual Pune Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Analog Communication Lab Manual Pune is one of the best book in our library for free trial. We provide copy of Analog Communication Lab Manual Pune in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Analog Communication Lab Manual Pune. Where to download Analog Communication Lab Manual Pune online for free? Are you looking for Analog Communication Lab Manual Pune PDF? This is definitely going to save you time and cash in something you should think about.

Find Analog Communication Lab Manual Pune:

2005 arctic cat 250 300 400 500 650 atv service repair manual

2005 arctic cat 650 h1 manual

2005 cherokee ac vacuum line diagram

2005 honda shadow aero 750 manual

2005 ford ranger ac repair manual

2005 ford focus zx5 repair manual

2004 yamaha z250 hp outboard service repair manual

2005 chevy express owners manual

2005 hummer h2 manual

2004 yamaha t60 tlrc outboard service repair maintenance manual factory

2005 chrysler 300c hemi owners manual

2005 f 450 owners manual

2005 acura rl service manual

2005 ford f150 lariat owners manual

2005 arctic cat 650 h1 repair manual

Analog Communication Lab Manual Pune:

9 teaching methods to promote success in the classroom - Oct 02 2021

30 lesson plan examples for every grade and subject - Oct 14 2022

web reading lesson plans blending fiction and nonfiction to improve comprehension and writing skills blurring genre exploring fiction and nonfiction with diary of a worm

teachers net reading lesson plans reading lesson - Dec 16 2022

web aug 3 2023 teacher pd 30 lesson plan examples for every grade level and subject lots of ways to prepare for top notch learning by jill staake aug 3 2023 writing

lesson plan writing tips for teachers thoughtco - Mar 07 2022

web aug 29 2023 first grade reading lesson plans example when designing a first grade reading lesson plan the first thing teachers must identify are the learning objectives

browse reading lesson plans education com - Jan 17 2023

web teachers net features free reading lesson plans reading printables reading worksheets and more free teaching materials and educational resources for reading

reading lesson plans teachervision - Jun 22 2023

web 138 results found sort by most popular x reading x lesson plans lesson plans sequencing lesson plan for the very hungry caterpillar present this common core

lesson plans read write think - Jul 23 2023

web lesson plans we have hundreds of standards based lesson plans written and reviewed by educators using current research and the best instructional practices find the

reading comprehension lesson plans teachervision - Jul 31 2021

reading lesson plan template word templates for - Feb 06 2022

web feb 28 2023 6 inquiry based learning inquiry based learning promotes the idea of learning by investigation where students can complete projects ask questions and find

reading comprehension lesson plans readtheory - May 21 2023

web free lesson plans that focus on core areas of reading comprehension tone point of view context clues central ideas summarizing theme characterization and inferencing

how to teach a perfect reading lesson busyteacher - Apr 20 2023

web aims to learn vocabulary related to reading and books to practise speaking about reading habits and complete a questionnaire and develop discussion skills to develop

lesson plans and resources from the teacher's guide - Jan 05 2022

web september 21 202311 23 am pdtupdated 3 min ago sept 21 reuters many u s government services would be disrupted and hundreds of thousands of federal workers

 $20\ free\ printables\ and\ resources\ for\ teachers\ and\ educators$ - Apr $08\ 2022$

web dec 15 2020 understanding question types one of the important parts of learning about ielts reading is gaining an understanding of the different question types involved in the

free literacy teaching resources national literacy trust - Aug 24 2023

web free literacy teaching resources browse reading activities and lesson ideas for a range of topics that will make teaching literacy and english more accessible and engaging for

efl esl reading a model lesson plan linguapress - Jul 11 2022

web jun 30 2023 teaching strategies a simple tool to help with lesson planning and post lesson reflection the practice picker checklist provides a framework that teachers can

reading lesson plans activities and worksheets the - Feb 18 2023

web yummy peanut butter and jelly lesson plan increasing reading stamina and comprehension lesson plan z is for zookeeper lesson plan introducing reader s

first grade reading lesson plans reading teacher - Nov 03 2021

teaching ielts reading ielts teaching - Dec 04 2021

web download add to favorites lesson plans sequencing lesson plan for the very hungry caterpillar present this common core aligned lesson plan for the book the

reading lesson plan teachingenglish - Mar 19 2023

web reading lesson plans activities the resources provided by the teacher's corner cover a variety of literacy focused topics such as comprehension word lists centers

strategies for effective lesson planning crlt - Jun 10 2022

web lesson plan templates make lesson planning a breeze with these resources these printable templates will support you with planning cohesive differentiated and rigorous

a checklist for lesson planning edutopia - May 09 2022

web lesson plans reading lesson plans math lesson plans grammar language lesson plans writing language lesson plans science lesson plans social studies lesson

reading lesson plans themes printouts crafts the - Aug 12 2022

web steps for preparing a lesson plan below are six steps to guide you when you create your first lesson plans each step is accompanied by a set of questions meant to prompt

reading lesson plans for k 12 teachers teach nology com - Sep 13 2022

web there are essentially five stages to a reading lesson based on the study of a written text introduction warm up the class through a short discussion of the general topic to be

lesson plans for teachers teacher org - Nov 15 2022

web reading lesson plans 3d view of dante s inferno after reading dante s inferno students will be encouraged to make a model that represents what the author describes

us government shutdown what is it and who would be affected - Sep 01 2021

textbook gender geographien biblioscout - Nov 29 2022

web eine geschlechtsbezogene geographie widmet sich den raumrelevanten aspekten von geschlechterrollen und geschlechterrelationen beschreibt und analysiert die

gender geographien geschlecht und raum als soziale - Mar 02 2023

web gender mainstreaming what is gender mainstreaming policy cycle institutions and structures european union eu member states stakeholders international

gender geographien geschlecht und raum als soziale - Jul 06 2023

web jan 1 2011 während mit dem begriff geschlecht von den meisten menschen vor allem das biologische geschlecht assoziiert wird bedeutet der begriff gender die sozial

gender geographien geschlecht und raum als soziale - Oct 09 2023

web geschlecht ist heute als analysekategorie auch in der geographie etabliert daher sollen in diesem einführenden band der reihe sozialgeographie kompakt die wesentlichen

gender geographien geschlecht und raum als sozial pdf - Apr 22 2022

web gender geographien geschlecht und raum als sozial visuelle repräsentanz und soziale wirklichkeit dec 12 2019 sport gender inter nationale sportsoziologische

doris wastl walter gender geographien - Apr 03 2023

web 1 theoretische konzepte von geschlecht und raum 19 1 1 geschlecht als soziale konstruktion in der alltäglichen praxis 21 1 2 raum

gender geographien geschlecht und raum als sozial 2023 - Mar 22 2022

web gesicht etwas schwieriger erscheint die verknüpfung von geschlecht mit raum oder von geschlecht mit zeit oder erst recht von geschlecht mit raumzeit unsere art der

gender soziales geschlecht einfach erklärt beauvoir beispiele - Dec 19 2021

web gender begriff definition in die deutsche sprache gelangte das wort gender aus dem englischen sprachraum dort diente es bereits zur unterscheidung zwischen sex

gender wikipedia - Jan 20 2022

web als gender englisch 'dzɛndɐ oder 'dzɛndə lehnwort aus dem englischen soziales geschlecht oder geschlechtlichkeit werden geschlechtsaspekte zusammengefasst die

gender geographien geschlecht und raum als sozial - Jun 24 2022

web gender geographien geschlecht und raum als sozial raum und geschlecht als dichotome konstruktionen jul 20 2021 zwischenprüfungsarbeit aus dem jahr 1999 im

gender geographien franz steiner verlag - Nov 17 2021

web eine geschlechtsbezogene geographie widmet sich den raumrelevanten aspekten von geschlechterrollen und geschlechterrelationen beschreibt und analysiert die

gender geographien preamble - Oct 29 2022

web unschärfe der begriff geschlecht bezieht sich auf das biologische und soziale geschlecht sowie auf familien mit stammbaum zu vermeiden wenn der begriff

gender geographien fachbereich geowissenschaften fu - Aug 07 2023

web eine geschlechtsbezogene geographie widmet sich den raumrelevanten aspekten von geschlechterrollen und geschlechterrelationen beschreibt und analysiert die

9783515087834 gender geographien geschlecht und raum - May 24 2022

web gender geographien geschlecht und raum als soziale konstruktionen 2 sozialgeographie kompakt finden sie alle bücher von wastl walter doris bei der

gender geographien geschlecht und raum als soziale - Jun 05 2023

web gender geographien geschlecht und raum als soziale konstruktionen sozialgeographie kompakt band 2 doris wastl walter isbn 9783515087834

gender geographien geschlecht und raum als soziale - May 04 2023

 $web\ gender\ geographien\ geschlecht\ und\ raum\ als\ soziale\ konstruktionen\ inproceedings$

wastlwalter2010gendergeographieng title gender geographien

feministische geographie gender glossar - Jul 26 2022

web die feministische geographie verfolgt drei miteinander verbundene anliegen verstanden als geographische geschlechterforschung untersucht sie den zusammenhang von

gender geographien franz steiner verlag - Sep 08 2023

web eine geschlechtsbezogene geographie widmet sich den raumrelevanten aspekten von geschlechterrollen und geschlechterrelationen beschreibt und analysiert die

gender geographien geschlecht und raum als soziale - Sep 27 2022

web gender geographien book read reviews from world's largest community for readers geschlecht ist heute als analysekategorie auch in der geographie etabli

sozial raum und geschlecht springerlink - Feb 01 2023

web sep 19 2017 gender geographien geschlecht und raum als soziale konstruktionen sozialgeographie kompakt bd 2 stuttgart steiner google scholar wetterer angelika

geschlecht und raum als soziale konstruktionen - Dec 31 2022

web inhaltsverzeichnis vorwort 7 einleitung 9 1 theoretische konzepte von geschlecht und raum 19 geschlecht als soziale konstruktion in der alltäglichen praxis 21 1 2 raum

stadt raum und geschlechterforschung theoretische - Aug 27 2022

web jan 5 2019 die urban gender studies gehen davon aus dass es einen wechselseitigen konstitutionszusammenhang von raum und gender bzw von stadtentwicklung und

das soziale geschlecht gender gendermed wiki - Feb 18 2022

web das soziale geschlecht gender der begriff gender ist ein konglomerat von verhaltensweisen und einstellungen und beschreibt alle sozialen aspekte von

on becoming baby wise giving your infant the gift of - Oct 03 2023

web on becoming babywise giving you and your infant the gift of nighttime sleep baby book for new parents first time mom book sleep training for babies pediatrician

on becoming baby wise giving your infant the gift of nighttime - Apr 16 2022

on becoming babywise updated and expanded - Nov 23 2022

web dec 1 2017 on becoming babywise giving your infant the gift of nighttime sleep bucknam m dr robert 9781932740172 books amazon ca

on becoming babywise giving your infant the gift of ni - Aug 21 2022

web feb 1 2012 on becoming baby wise giving your infant the gift of nighttime sleep kindle edition 1 taking care of baby and mom 2 a timeline of what to expect and when 3

on becoming babywise giving your infant the gift of nighttime - Mar 28 2023

web jan 1 2019 on becoming babywise giving your infant the gift of nighttime sleep interactive support on apple books on becoming on becoming babywise giving

on becoming babywise giving you and your infant the gift of - Sep 02 2023

web on becoming babywise giving your infant the gift of nighttime sleep new edition bucknam m d robert ezzo m a gary amazon sg books

on becoming babywise giving your infant the gift of nighttime - Dec 25 2022

web oct 1 2020 on becoming babywise giving your infant the gift of nighttime sleep robert bucknam gary ezzo 4 05 471 ratings25 reviews distinguished pediatrician dr

on becoming babywise giving your infant the gift of - Feb 12 2022

on becoming babywise bucknam m d robert ezzo - Feb 24 2023

web dec 11 2018 on becoming babywise giving your infant the gift of nighttime sleep bucknam md 9781932740509 books amazon ca

on becoming babywise giving your infant the gift of nighttime - May 18 2022

on becoming babywise giving your infant the gift of ni - Jun 30 2023

web dec 1 2020 on becoming babywise giving your infant the gift of nighttime sleep new edition on becoming kindle edition by bucknam m d robert ezzo m a

on becoming baby wise wikipedia - Jan 26 2023

web for over 25 years on becoming babywise has been the de facto newborn parenting manual for naturally synchronizing your baby s feeding time waketime and nighttime

on becoming babywise giving your infant the gift of nighttime - Aug 01 2023

web on becoming babywise giving your infant the gift of nighttime sleep interactive support gary ezzo robert bucknam md 3 67 15 477 ratings2 273 reviews want to read

on becoming baby wise giving your infant the gift of nighttime - Jan 14 2022

on becoming babywise giving your infant the gift of - Jun 18 2022

on becoming babywise giving your infant the gift of ni - May 30 2023 web on becoming babywise giving your infant the gift of nighttime sleep bucknam m dr robert amazon sg books on becoming babywise giving your infant the gift of booktopia - Mar 16 2022

on becoming babywise giving your infant the gift of nighttime - Oct 23 2022

web there is a newer edition of this item on becoming babywise giving your infant the gift of nighttime sleep new edition 39 55 3 954 usually dispatched within 6 to 7 days

on becoming babywise giving your infant the gift of - Apr 28 2023

web on becoming baby wise giving your infant the gift of nighttime sleep is a christianity based infant management book written by gary ezzo and pediatrician robert bucknam

on becoming babywise giving your infant the gift of nighttime - Sep 21 2022

web apr 1 2017 on becoming babywise giving your infant the gift of nighttime sleep by gary ezzo 9781932740134 booktopia

books non fiction family health on becoming baby wise giving your infant the gift - $Jul\ 20\ 2022$