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317742 - GARRETT ALESSANDRO

This is one of the most significant military books of the twentieth century. By an outstanding soldier of independent mind, it pushed forward the evolution of land warfare and was directly responsible for German armoured supremacy in the early years of the Second World War. Published in 1937, the result of 15 years of careful study since his days on the German General Staff in the First World War, Guderian's book argued, quite clearly, how vital the proper use of tanks and supporting armoured vehicles would be in the conduct of a future war. When that war came, just two years later, he proved it, leading his Panzers with distinction in the Polish, French

and Russian campaigns. Panzer warfare had come of age, exactly as he had forecast. This first English translation of Heinz Guderian's classic book - used as a textbook by Panzer officers in the war - has an introduction and extensive background notes by the modern English historian Paul Harris.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Learn the basics of electronics and start designing and building your own creations! This follow-up to the bestselling Practical Electronics for Inventors shows hobbyists, makers, and students how to design useful electronic devices from readily available parts, integrated cir-

cuits, modules, and sub-assemblies. Practical Electronic Design for Experimenters gives you the knowledge necessary to develop and construct your own functioning gadgets. The book stresses that the real-world applications of electronics design—from autonomous robots to solar-powered devices—can be fun and far-reaching. Coverage includes:

- Design resources
- Prototyping and simulation
- Testing and measuring
- Common circuit design techniques
- Power supply design
- Amplifier design
- Signal source design
- Filter design
- Designing with electromechanical devices
- Digital design
- Programmable logic devices
- Designing with microcontrollers
- Component selection
- Troubleshooting and debugging

Traces The Historical Development Of Roman Civilization From Prehistoric Times Through The Death Of Constantine The Great In 337 A. D.

Touch, feel, and hear the trucks on every page of this sturdy board book. Engaging photographs and appealing textures encourage young readers to explore the exciting world of trucks.

Translation of Bengali original "Āmāra bandhu Rāśēda."

Build a Django content management system, blog, and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project, implementing and running the applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area, having been able to take advantage of Django, a very popular open-source web framework

whose stated goal is to "make it easier to build better web applications more quickly with less code." Practical Django Projects introduces this popular framework by way of a series of real-world projects. Readers follow along with the development of each project, implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all-new chapter covering practical development tools and techniques you'll be able to apply to your own development workflow.

This course describes the architecture, components, and operations of routers, and explains the principles of routing and routing protocols. You learn how to configure a router for basic and advanced functionality. By the end of this course, you will be able to configure and troubleshoot routers and resolve common issues with RIPv1, RIPv2, EIGRP, and OSPF in both IPv4 and IPv6 networks. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organise your time. The book's features help you

focus on important concepts to succeed in this course: Chapter objectives-Review core concepts by answering the focus questions listed at the beginning of each chapter. Key terms-Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary--Consult the comprehensive Glossary with more than 150 terms. Summary of Activities and Labs-Maximise your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding-Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. How To-Look for this icon to study the steps you need to learn to perform certain tasks.

"Riveting." —The New York Times Book Review
 Hundreds of miles from civilization, two ships wreck on opposite ends of the same deserted island in this true story of human nature at its best—and at its worst. It is 1864, and Captain Thomas Musgrave's schooner, the Grafton, has just wrecked on Auckland Island, a forbidding piece of land 285

miles south of New Zealand. Battered by year-round freezing rain and constant winds, it is one of the most inhospitable places on earth. To be shipwrecked there means almost certain death. Incredibly, at the same time on the opposite end of the island, another ship runs aground during a storm. Separated by only twenty miles and the island's treacherous, impassable cliffs, the crews of the *Grafton* and the *Invercauld* face the same fate. And yet where the *Invercauld's* crew turns inward on itself, fighting, starving, and even turning to cannibalism, *Musgrave's* crew bands together to build a cabin and a forge—and eventually, to find a way to escape. Using the survivors' journals and historical records, award-winning maritime historian Joan Druett brings to life this extraordinary untold story about leadership and the fine line between order and chaos.

An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus,

mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources. Key Features: Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technolo-

gies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples, including business cases This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

Admitting you're a bell-end is the first step to salvation... KSI is one of the biggest and baddest YouTube stars on the planet. With over a billion views and millions of subscribers to his name, he is the undisputed king of social media. But despite this success he is a self-confessed bell-end. Excessively posting selfies, oversharing about his dead nan, spending all day scouring Tinder and suffering from red-hot Fifa rage, are just some of his undesirable online habits. However, with acceptance

comes salvation and now KSI is blowing the doors off the internet to find the cure. No one is spared, as KSI takes down fellow YouTubers, trolls, paedos, Tinder catfishers and Nigerian scammers in an all-out assault on the online universe. Along the way he also reveals how to become a YouTube kingpin as well as his hot Fifa tips, before he unveils his online revolution to help save the next generation from his fate. So, if you want to avoid becoming a total bell-end, then calm your tits, and simply take the medicine KSI is dishing up.

After the deaths and arrests of his entire crew and an informant-fueled investigation into his past, the man known on the streets as Animal relocates to Texas and finds fame and stardom as the newest act signed to the notorious Big Dawg Entertainment. His girlfriend, Gucci, is thrilled when she gets the news that he's coming back to New York on a promotional tour, but when she discovers the hidden agenda behind his homecoming nothing can prepare her for the life-altering consequences that will come of it. There goes the neighborhood . . . again.

A Perl expert can solve a

problem in a few lines of well-tested code. Now you can unlock these powers for yourself. Modern Perl teaches you how Perl really works. It's the only book that explains Perl thoroughly, from its philosophical roots to the pragmatic decisions that help you solve real problems--and keep them solved. You'll understand how the language fits together and discover the secrets used by the global Perl community. This beloved guide is now completely updated for Perl 5.22. When you have to solve a problem now, reach for Perl. When you have to solve a problem right, reach for Modern Perl. Discover how to scale your skills from one-liners to asynchronous Unicode-aware web services and everything in between. Modern Perl will take you from novice to proficient Perl hacker. You'll see which features of modern Perl will make you more productive, and which features of this well-loved language are best left in the past. Along the way, you'll take advantage of Perl to write well-tested, clear, maintainable code that evolves with you. Learn how the language works, how to take advantage of the CPAN's immense trove of time-tested solutions, and

how to write clear, concise, powerful code that runs everywhere. Specific coverage explains how to use Moose, how to write testable code, and how to deploy and maintain real-world Perl applications. This new edition covers the new features of Perl 5.20 and Perl 5.22, including all the new operators, standard library changes, bug and security fixes, and productivity enhancements. It gives you what you need to use the most up-to-date Perl most effectively, all day, every day. What You Need: Perl 5.16 or newer (Perl 5.20 or 5.22 preferred). Installation/upgrade instructions included.

(Bass Instruction). Ready to take your playing to the next level? Renowned bassist Gary Willis presents valuable how-to insight that bassists of all styles and levels can benefit from. The text, photos, music, diagrams and accompanying audio provide a terrific, easy-to-use resource for a variety of topics, including: techniques, improvising and soloing, equipment, practicing, ear training, performance, theory, and much more.

This book includes selected papers from the International Conference on Machine Learning and In-

formation Processing (ICMLIP 2019), held at ISB&M School of Technology, Pune, Maharashtra, India, from December 27 to 28, 2019. It presents the latest developments and technical solutions in the areas of advanced computing and data sciences, covering machine learning, artificial intelligence, human-computer interaction, IoT, deep learning, image processing and pattern recognition, and signal and speech processing.

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters,

minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques

for manufacturing op amp circuits.

This exciting new book, *Pulse Diagnosis: A Clinical Guide* describes a reliable method of pulse assessment. The authors' style and approach to pulse diagnosis provides a unique insight into this often ambiguous system of diagnosis drawing upon the traditions of Chinese medicine, the knowledge of biomedical constructs and the relationship of each to contemporary TCM clinical practice. Subjects covered include exploration of the concept of 'pulse' and establishment of it within the context of health, current limitations of current pulse literature in relation to clinical practice, pulse diagnosis within contemporary TCM clinical practice and pulse taking procedures.

Wicked Words - a collection of saucy and compelling short stories. Outrageous sex and lust-filled liaisons are plentiful yet again in the third volume of *Wicked Words* short stories. Written by women at the cutting edge of erotic literature, the series is the best in contemporary fiction aimed at women who desire unashamed, indulgent fantasies. Fun, delicious, daring and seductive, the anthology com-

bines imaginative writing and wild hilarity, making Wicked Words collections the juiciest erotic stories to be found anywhere in the world.

This book is for those who want to get their laser printer up and running fast while saving money. The author covers all of today's laser and LED printers, giving readers the practical information and guidance they need to perform their own repairs. Step-by-step troubleshooting flowcharts make it easy to identify the cause of particular problems and perform necessary repairs.

Assists those interested in accessing information from the wealth of statistics collected in the Census of Population and Housing. The directory contains a description of the range of publications, electronic products, maps and consultancy services available from the 2001 Census. These products and services are to be progressively released between 2002 and 2003 as the detailed data becomes available. A brief description of the contents of each item is provided, as well as details of the geographic coverage, price, availability by medium and ordering information.

A collection of over 250 PHP functions with clear explanations in language anyone can understand, followed with as many examples as it takes to understand what the function does and how it works. This book includes numerous additional tips, the basics of PHP, MySQL query examples, regular expressions syntax, and two indexes to help you find information faster: a common language index and a function index. When the internet is not around or you want a simpler explanation along with all the technical details, this book has all of that and more.

This is an introduction to the principles of modern ecology as they relate to today's threat to Earth's life-support systems. Themes examined include experimental life-support systems, hierarchies, ecosystems and landscapes, component physical factors, population, development and evolution. Take a crime-filled tour of Manhattan with this collection of all-new stories of mystery, murder, and suspense presented by Mary Higgins Clark—with contributions by Lee Child, Jeffrey Deaver, and more. From the streets of Harlem to the winding paths

of Central Park to the high-rise towers of Wall Street, Manhattan is brimming with motivation, opportunity, means—and unsolved mysteries. In this new collection of stories, brought together by Mystery Writers of America and edited by bestselling suspense author Mary Higgins Clark, neighborhoods in the borough come to life—or death—with their own cases to be cracked. In Lee Child's exclusive Jack Reacher story, "The Picture of the Lonely Diner," the legendary drifter interrupts a curious stand-off in the shadow of the Flatiron Building. In Jeffrey Deaver's "The Baker of Bleecker Street," an Italian immigrant becomes ensnared in WWII espionage. And in "The Five-Dollar Dress," Mary Higgins Clark unearths the contents of a mysterious hope chest found in an apartment on Union Square. With additional stories from T. Jefferson Parker, S. J. Rozan, Nancy Pickard, Ben H. Winters, Brendan DuBois, Persia Walker, Jon L. Breen, N. J. Ayres, Angela Zeman, Thomas H. Cook, Judith Kelman, Margaret Maron, Justin Scott, and Julie Hyzy, Manhattan Mayhem is teeming with red herrings, likely suspects, and thoroughly satisfying mys-

teries.

Ever since humans became self-aware, we have struggled to find the meaning of life. The price we paid for becoming intelligent was to become painfully ignorant of the difference between good and evil. Adi, a 10-year-old boy, works together with two old philosophers as they try to unravel the prophecy of a promised King. With insatiable curiosity, Adi must work with the wise men as they rationalize with each other on why and how humans became intelligent. Together they attempt to answer some of the most profound questions related to existence. Does evolution end with human beings or is there an 'Overman' who can reach evolution's pinnacle? Will this Overman be able to define values for humankind? Centuries later a young boy promises his mother that he will always uphold the love that she has taught him. It is a promise that drowns him in the nectar of the gods. Krish grows up to be an engineer and joins a team of scientists as they try to create artificial consciousness in a machine. Krish soon realizes that he has a bigger fight on his hands. A fight to preserve love in a desolate world. His quest for true love ulti-

mately leads him down a path where he comes face to face with a fearsome snake delivering a kiss of death. Humans have come a long way by questioning the nature of objects around us and pushing the limits of our intelligence, but it's now time that we ask the greatest question yet: when does intelligence transcend to become consciousness?

This conference will provide a wonderful forum to refresh knowledge base and explore the innovations in signal processing and systems. It is also for researchers, academia, professionals, and students to disseminate information on the latest developments of signal processing and systems. This conference strives to offer plenty of networking opportunities and interact with leading scientists and researchers, friends and colleagues. There is a need for real innovations that come from research in telecommunication Technology for effective utilization of frequency resources, high speed data communications, power saving of wireless communication devices, GPS based relative positioning method between vehicles and such, which expands the possibilities of wireless communications, is

the need of the hour. The primary goal of STCR is to provide a platform to promote sharing of ideas which will contribute to fostering continued research in the respective fields.

Build your electronics workbench—and begin creating fun electronics projects right away. Packed with hundreds of diagrams and photographs, this book provides step-by-step instructions for experiments that show you how electronic components work, advice on choosing and using essential tools, and exciting projects you can build in 30 minutes or less. You'll get charged up as you transform theory into action in chapter after chapter! Circuit basics — learn what voltage is, where current flows (and doesn't flow), and how power is used in a circuit. Critical components — discover how resistors, capacitors, inductors, diodes, and transistors control and shape electric current. Versatile chips — find out how to use analog and digital integrated circuits to build complex projects with just a few parts. Analyze circuits — understand the rules that govern current and voltage and learn how to apply them. Safety

tips — get a thorough grounding in how to protect yourself—and your electronics—from harm P.S. If you think this book seems familiar, you're probably right. The Dummies team updated the cover and design to give the book a fresh feel, but the content is the same as the previous release of *Electronics For Dummies* (9781119117971). The book you see here shouldn't be considered a new or updated product. But if you're in the mood to learn something new, check out some of our other books. We're always writing about new topics!

This revised and expanded *Black Theatre USA* broadens its collection to fifty-one outstanding plays, enhancing its status as the most authoritative anthology of African American drama with twenty-two new selections. This collection features plays written between 1935 and 1996.

A riveting Vietnam War story--and one of the most dramatic in aviation history--told by a New York Times bestselling author and a prominent aviation historian Every war has its "bridge"--Old North Bridge at Concord, Burnside's Bridge at Antietam, the railway bridge over Burma's River Kwai, the

bridge over Germany's Rhine River at Remagen, and the bridges over Korea's Toko Ri. In Vietnam it was the bridge at Thanh Hoa, called Dragon's Jaw. For seven long years hundreds of young US airmen flew sortie after sortie against North Vietnam's formidable and strategically important bridge, dodging a heavy concentration of anti-aircraft fire and enemy MiG planes. Many American airmen were shot down, killed, or captured and taken to the infamous "Hanoi Hilton" POW camp. But after each air attack, when the smoke cleared and the debris settled, the bridge stubbornly remained standing. For the North Vietnamese it became a symbol of their invincibility; for US war planners an obsession; for US airmen a testament to American mettle and valor. Using after-action reports, official records, and interviews with surviving pilots, as well as untapped Vietnamese sources, *Dragon's Jaw* chronicles American efforts to destroy the bridge, strike by bloody strike, putting readers into the cockpits, under fire. The story of the *Dragon's Jaw* is a story rich in bravery, courage, audacity, and sometimes luck, sometimes tragedy. The

"bridge" story of Vietnam is an epic tale of war against a determined foe. This is the Scala edition of *Category Theory for Programmers* by Bartosz Milewski. This book contains code snippets in both Haskell and Scala.

This book covers the field of machine learning, which is the study of algorithms that allow computer programs to automatically improve through experience. The book is intended to support upper level undergraduate and introductory level graduate courses in machine learning.

Understand how blockchain works and explore a variety of strategies to implement it in your organization effectively Key Features Become familiar with business challenges faced by companies when using blockchain Discover how companies implement blockchain to monetize and secure their data Study real-world examples to understand blockchain and its use in organizations Book Description In addition to cryptocurrencies, blockchain-based apps are being developed in different industries such as banking, supply chain, and healthcare to achieve digital transforma-

tion and enhance user experience. Blockchain is not only about Bitcoin or cryptocurrencies, but also about different technologies such as peer-to-peer networks, consensus mechanisms, and cryptography. These technologies together help sustain trustless environments in which digital value can be transferred between individuals without intermediaries. This book will help you understand the basics of blockchain such as consensus protocols, decentralized applications, and tokenization. You'll focus on how blockchain is used today in different industries and the technological challenges faced while implementing a blockchain strategy. The book also enables you, as a decision maker, to understand blockchain from a technical perspective and evaluate its applicability in your business. Finally, you'll get to grips with blockchain frameworks such as Hyperledger and Quorum and their usability. By the end of this book, you'll have learned about the current use cases of blockchain and be able to implement a blockchain strategy on your own. What you will learn Become well-versed with how blockchain works Understand the differ-

ence between blockchain and Bitcoin Learn how blockchain is being used in different industry verticals such as finance and retail Delve into the technological and organizational challenges of implementing blockchain Explore the possibilities that blockchain can unlock for decision makers Choose a blockchain framework best suited for your projects from options such as Ethereum and Hyperledger Fabric Who this book is for This book is for CXOs, business professionals, organization leaders, decision makers, technology enthusiasts, and managers who wish to understand how blockchain is implemented in different organizations, its impact, and how it can be customized according to business needs. Prior experience with blockchain is not required.

Rather than yet another project-based workbook, *Arduino: A Technical Reference* is a reference and handbook that thoroughly describes the electrical and performance aspects of an Arduino board and its software. This book brings together in one place all the information you need to get something done with Arduino. It will save you from endless web searches and digging

through translations of datasheets or notes in project-based texts to find the information that corresponds to your own particular setup and question. Reference features include pinout diagrams, a discussion of the AVR microcontrollers used with Arduino boards, a look under the hood at the firmware and run-time libraries that make the Arduino unique, and extensive coverage of the various shields and add-on sensors that can be used with an Arduino. One chapter is devoted to creating a new shield from scratch. The book wraps up with detailed descriptions of three different projects: a programmable signal generator, a "smart" thermostat, and a programmable launch sequencer for model rockets. Each project highlights one or more topics that can be applied to other applications.

The World Is No Longer Flat Culo is an art, fashion, and pop-culture movement that defies all national, cultural, and linguistic boundaries. No matter if you were raised to call it derriere, tush, rear end, or booty, culo is the new epicenter of female sexuality, desire, and empowerment. Over the past decade, some of

the world's most celebrated women have subtly shifted our long-held ideals of physical perfection toward a shape that is more authentic and bold. While culo has long been venerated in certain cultures, it is now becoming the object of worldwide mainstream admiration. This emerging global love affair with culo is as much about the blending of African, Latin, European, and Asian beauty as it is about celebrating the female form's most coveted asset. Culo by Mazzucco pays tribute to this phenomenon through a singular artistic vision. In more than 200 photographs and artworks created on location around the world, a diverse group of women—some already legendary, some about to become so—embody the spirit of culo and the start of a new era of beauty.

Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios. By the time you're halfway through this fast-paced, hands-on guide, you'll have built a series of useful projects, including a complete ZigBee wireless network that delivers remotely sensed da-

ta. Radio networking is creating revolutions in volcano monitoring, performance art, clean energy, and consumer electronics. As you follow the examples in each chapter, you'll learn how to tackle inspiring projects of your own. This practical guide is ideal for inventors, hackers, crafters, students, hobbyists, and scientists. Investigate an assortment of practical and intriguing project ideas Prep your ZigBee toolbox with an extensive shopping list of parts and programs Create a simple, working ZigBee network with XBee radios in less than two hours -- for under \$100 Use the Arduino open source electronics prototyping platform to build a series of increasingly complex projects Get familiar with XBee's API mode for creating sensor networks Build fully scalable sensing and actuation systems with inexpensive components Learn about power management, source routing, and other XBee technical nuances Make gateways that connect with neighboring networks, including the Internet The Blended Learning Cookbook presents a way for trainers and teachers to analyse a learning need and to choose effectively from the ever increasing

range of formal and informal media and methods at their disposal. More importantly, it provides imaginative solutions to a broad range of typical problems - solutions that will be readily adaptable to the reader's own situation. The new version has twice as many recipes so you'll never be short of ideas.

This book features high-quality papers presented at the International Conference on Computational Intelligence and Communication Technology (CICT 2019) organized by ABES Engineering College, Ghaziabad, India, and held from February 22 to 23, 2019. It includes the latest advances and research findings in fields of computational science and communication such as communication & networking, web & informatics, hardware and software designs, distributed & parallel processing, advanced software engineering, advanced database management systems and bioinformatics. As such, it is of interest to research scholars, students, and engineers around the globe. Wireless communication has emerged as an independent discipline in the past decades. Everything from cellular voice telephony to wireless data

transmission using wireless sensor networks has profoundly impacted the safety, production, and productivity of industries and our lifestyle as well. After a decade of exponential growth, the wireless industry is one of the largest industries in the world. Therefore, it would be an injustice if the wireless communication is not explored for mining industry. Underground mines, which are characterized by their tough working conditions and hazardous environments, require fool-proof mine-wide communication systems for smooth functioning of mine workings and ensuring better safety. Proper and reliable communication systems not only save the machine breakdown time but also help in immediate passing of messages from the vicinity of underground working area to the surface for day-to-

day normal mining operations as well as for speedy rescue operations in case of disaster. Therefore, a reliable and effective communication system is an essential requisite for safe working, and maintaining requisite production and productivity of underground mines. Most of the existing systems generally available in underground mines are based on line (wired) communication principle, hence these are unable to withstand in the disaster conditions and difficult to deploy in inaccessible places. Therefore, wireless communication is an indispensable, reliable, and convenient system and essential in case of day-to-day normal duty or disaster situations.

Riley Blakely and the remainder of Grandview High's french class is heading out on a school trip to Paris. The three weeks in

Paris are supposed to be an 'educational opportunity' for this lot. But of course, these hormonal teenagers just cannot abide by the rules. The one rule set by their lovely Mr. Walker: You cannot room with somebody of the opposite gender. So what does this french class do? Room with the opposite gender, with a funny way of picking roommates. Chit picking. Because hormonal teenagers can just never get enough. Insert Asher West. Her not so secret annoying hater. It's a hate-hate relationship. He's the guy who picked Riley's name. He's the most popular guy in the freaking school and Riley? Not so much. Put the two together and you'll get a whole lot of arguments and awkward moments. They're roommates and they're stuck in Paris, the city of love and the city of lights