

# FROM GSM TO LTE-ADVANCED PRO AND 5G

AN INTRODUCTION TO MOBILE NETWORKS  
AND MOBILE BROADBAND

THIRD EDITION

MARTIN SAUTER

WILEY

# From Gsm To Lte Advanced

**BANDYOPADHYAY, KARABI**



## **From Gsm To Lte Advanced:**

**From GSM to LTE-Advanced** Martin Sauter, 2014-06-23 This revised edition of Communication Systems from GSM to LTE An Introduction to Mobile Networks and Mobile Broadband Second Edition Wiley 2010 contains not only a technical description of the different wireless systems available today but also explains the rationale behind the different mechanisms and implementations not only the how but also the why In this way the advantages and also limitations of each technology become apparent Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications this edition has been updated to provide the latest directions and activities in 3GPP standardization up to Release 12 and importantly includes a new chapter on Voice over LTE VoLTE There are new sections on Building Blocks of a Voice Centric Device Building Blocks of a Smart Phone Fast Dormancy IMS and High Speed Downlink Packet Access and Wi Fi Protected Setup Other sections have been considerably updated in places reflecting the current state of the technology Describes the different systems based on the standards their practical implementation and design assumptions and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material **From**

**GSM to LTE-Advanced Pro and 5G** Martin Sauter, 2021-01-20 A revised edition of the text that offers a comparative introduction to global wireless standards technologies and their applications The revised and updated fourth edition of From GSM to LTE Advanced Pro and 5G An Introduction to Mobile Networks and Mobile Broadband offers an authoritative guide to the technical descriptions of the various wireless technologies currently in use The author a noted expert on the topic explains the rationale behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology The fourth edition reflects the significant changes in mobile network technology that have taken place since the third edition was published The text offers a new chapter on 5G NR that explores its non standalone and standalone architecture In the Wi Fi chapter additional sections focus on the new WPA3 authentication protocol the new 802 11ax air interface and protocol extensions like 802 11k and 11v for meshed networks This important book Presents the various systems based on the standards their practical implementation and design assumptions and their performance and capacity Provides an in depth analysis of each system in practice Offers an updated edition of the most current changes to mobile network technology Includes questions at the end of each chapter and answers on the accompanying website that make this book ideal for self study or as course material Written for students and professionals of wireless technologies the revised fourth edition of From GSM to LTE Advanced Pro and 5G provides an in depth review and description of the most current mobile networks and broadband **From GSM to LTE-Advanced Pro and 5G** Martin Sauter, 2017-08-02 A comparative introduction to major global wireless standards technologies and their applications From GSM to LTE Advanced Pro and 5G An Introduction to Mobile Networks and Mobile Broadband 3rd Edition provides technical descriptions of the various

wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization, NFV and Narrowband Internet of Things (NB-IoT). Voice over LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice over Wi-Fi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2 Enterprise with certificates for authentication in large deployments such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained. Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material. *From GSM to LTE* Martin

Sauter, 2010-12-30. A new edition of Wiley's Communication Systems for the Mobile Information Society from the same author. Wireless systems such as GSM, UMTS, LTE, WiMAX, Wi-Fi and Bluetooth offer possibilities to keep people connected while on the move. In this flood of technology, *From GSM to LTE: An Introduction to Mobile Networks and Mobile Broadband* enables readers to examine and understand each technology and how to utilise several different systems for the best results. This book contains not only a technical description of the different wireless systems available today but also explains the rationale behind the different mechanisms and implementations, not only the how but also the why. It is focused on the advantages and also limitations of each technology, become apparent. Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications, this new edition has been updated to provide the latest directions and activities in 3GPP standardization reaching up to Release 10 and importantly includes a new chapter on LTE. The new LTE chapter covers aspects such as Mobility Management and Power Optimization, Voice over LTE and Air Interface and Radio Network. Provides readers with an introduction to major global wireless standards and compares the different wireless technologies and their applications. The performance and capacity of each system in practice is analyzed and explained, accompanied with practical tips on how to discover the functionality of different networks. Offers approximately 25% new material which includes a major new chapter on LTE and updates to the existing material including

Release 4 BICN in relation to GSM Questions at the end of each chapter and answers on the accompanying website <http://www.wirelessmoves.com> make this book ideal for self study or as course material

**From GSM to LTE-Advanced Pro and 5G, 3rd Edition** Martin Sauter, 2017 A comparative introduction to major global wireless standards technologies and their applications From GSM to LTE Advanced Pro and 5G An Introduction to Mobile Networks and Mobile Broadband 3rd Edition provides technical descriptions of the various wireless technologies currently in use It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation mobility management cell reselection and handover procedures as well as the latest developments in 5G radio and core networks in 3GPP It now features additional information on the TD LTE air interface IPv6 in mobile networks Network Function Virtualization NFV and Narrowband Internet of Things NB IOT Voice over LTE VoLTE is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process dedicated bearer setup header compression speech codec and bandwidth negotiation supplementary service configuration and VoLTE emergency calls In addition extensive coverage of Voice over Wifi and mission critical communication for public safety organizations over LTE has been added The WLAN chapter now provides coverage of WPA2 Professional with certificates for authentication in large deployments such as the global Eduroam network and the new WLAN 60 GHz air interface Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy BLE in the chapter devoted to Bluetooth Describes the different systems based on the standards their practical implementation and design assumptions and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material

The LTE-Advanced Deployment Handbook Jyrki T. J. Penttinen, 2016-01-26 LTE Advanced is the new Global standard which is expected to create a foundation for the future wireless broadband services The standard incorporates all the latest technologies recently developed in the field of wireless communications Presented in a modular style the book provides an introductory description for beginners as well as practical guidelines for telecom specialists It contains an introductory module that is suitable for the initial studies of the technology based on the 3GPP Release 10 11 and beyond of LTE and SAE The latter part of the book is suitable for experienced professionals who will benefit from the practical descriptions of the physical core and radio network planning end to end performance measurements physical network construction and optimization of the system The focus of the book is in the functioning planning construction measurements and optimization of the radio and core networks of the Release 10 and beyond of the 3GPP LTE and SAE standards It looks at the practical description of the Advanced version of the LTE SAE how to demystify the LTE Advanced functionality and planning and how

to carry out practical measurements of the system In general the book describes how to do it for the 4G system which is compliant with the ITU R requirements

**4G, LTE-Advanced Pro and The Road to 5G** Erik Dahlman, Stefan Parkvall, Johan Skold, 2016-07-19 The upcoming 5G specifications from 3GPP to be available in 2018 will include LTE Advanced Pro as well as a new 5G radio access technology This practical and very successful book written by engineers working closely with 3GPP gives insight into the newest technologies and standards adopted by 3GPP with detailed explanations of the specific solutions chosen and their implementation in LTE LTE Advanced and LTE Advanced Pro as well as providing a detailed description of the path to 5G and the associated underlying technologies This edition has been thoroughly revised and updated to reflect the large extensions to LTE as introduced in 3GPP Releases 12 and 13 and the role of LTE in the upcoming 5G era New to this edition includes updated content on 4G and 5G Radio Access Spectrum for 4G and 5G Machine Type Communication Device to Device Communication License assisted Access Full dimension MIMO Small cell enhancements eIMTA FDD TDD aggregation dual connectivity Requirements on and general structure of 5G wireless access addressing the existing and new usage scenarios for 5G Technical solutions for the new 5G radio access technology The authors of this book all work at Ericsson Research and have been deeply involved in 3G and 4G development and standardization They are leading experts in the field and are today actively contributing to the standardization of 4G and 5G within 3GPP The leading book on 3GPP specifications for LTE LTE Advanced and LTE Advanced Pro covering up to and including Release 13 written by Ericsson engineers who are heavily involved in the development of 3GPP specifications Ten new chapters and coverage of all major features introduced with Release 12 and 13 Two completely new chapters on 5G wireless access including a detailed description of the key technology components under development by 3GPP

**From LTE to LTE-Advanced Pro and 5G** Moe Rahnema, Marcin Dryjanski, 2017-09-30 This practical hands on new resource presents LTE technologies from end to end including network planning and the optimization tradeoff process This book examines the features of LTE Advanced and LTE Advanced Pro and how they integrate into existing LTE networks Professionals find in depth coverage of how the air interface is structured at the physical layer and how the related link level protocols are designed and work This resource highlights potential 5G solutions as considered in releases 14 and beyond the migration paths and the challenges involved with the latest updates and standardization process Moreover the book covers performance analysis and results as well as SON specifications and realization Readers learn about OFDMA and how DFT is used to implement it Link budgeting parameter estimations and network planning and sizing is explained Insight into core network architecture is provided including the protocols and signaling used for both data and voice services The book also presents a detailed chapter on the end to end data transfer optimization mechanisms based on the TCP protocol This book provides the tools needed for network planning and optimization while addressing the challenges of LTE and LTE advanced networks

4G: LTE/LTE-Advanced for Mobile Broadband Erik Dahlman, Stefan Parkvall, Johan Skold, 2013-10-07 This book

focuses on LTE with full updates including LTE Advanced Release 11 to provide a complete picture of the LTE system. Detailed explanations are given for the latest LTE standards for radio interface architecture, the physical layer access procedures, broadcast relaying, spectrum and RF characteristics, and system performance. Key technologies presented include multi-carrier transmission, advanced single-carrier transmission, advanced receivers, OFDM, MIMO, and adaptive antenna solutions, radio resource management and protocols, and different radio network architectures. Their role and use in the context of mobile broadband access in general is explained, giving both a high-level overview and more detailed step-by-step explanations. This book is a must-have resource for engineers and other professionals in the telecommunications industry working with cellular or wireless broadband technologies, giving an understanding of how to utilize the new technology in order to stay ahead of the competition.

New to this edition: In-depth description of CoMP and enhanced multi-antenna transmission, including new reference signal structures and feedback mechanisms. Detailed description of the support for heterogeneous deployments provided by the latest 3GPP release. Detailed description of new enhanced downlink control channel structure, EPDCCH. New RF configurations including operation in non-contiguous spectrum, multi-bands, base stations, and new frequency bands. Overview of 5G as a set of well-integrated radio access technologies, including support for higher frequency bands and flexible spectrum management, massive antenna configurations, and ultra-dense deployments. Covers a complete update to the latest 3GPP Release 11. Two new chapters on HetNet covering small cells, heterogeneous deployments, and CoMP, including inter-site coordination. Overview of current status of LTE Release 12, including further enhancements of local area CoMP and multi-antenna transmission. Machine-type communication. Device-to-device communication.

*Wireless Communications Systems Design* Haesik Kim, 2015-08-06. em style mso-bidi font style normal. *Wireless Communications Systems Design* provides the basic knowledge and methodology for wireless communications design. The book mainly focuses on a broadband wireless communication system based on OFDM/OFDMA system because it is widely used in the modern wireless communication system. It is divided into three parts: wireless communication theory (part I), wireless communication block design (part II), and wireless communication block integration (part III). Written by an expert with various experience in system design, standards research, and development.

**MOBILE COMPUTING** NARAYAN CHANGDER, 2024-02-29. Note: Anyone can request the PDF version of this practice set/workbook by emailing me at cbsenet4u@gmail.com. You can also get full PDF books in quiz format on our YouTube channel: <https://www.youtube.com/SmartQuizWorld>. I will send you a PDF version of this workbook. This book has been designed for candidates preparing for various competitive examinations. It contains many objective questions specifically designed for different exams. Answer keys are provided at the end of each page. It will undoubtedly serve as the best preparation material for aspirants. This book is an engaging quiz eBook for all and offers something for everyone. This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information. Use this invaluable book to test your subject matter expertise. Multiple-choice exams are

a common assessment method that all prospective candidates must be familiar with in today's academic environment. Although the majority of students are accustomed to this MCQ format, many are not well versed in it. To achieve success in MCQ tests, quizzes, and trivia challenges, one requires test-taking techniques and skills in addition to subject knowledge. It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations. Whether you have studied the subject on your own, read for pleasure, or completed coursework, it will assess your knowledge and prepare you for competitive exams, quizzes, trivia, and more.

**Android Tablets Made Simple** Marziah Karch, MSL Made Simple Learning, 2012-01-18. If you thought your phone was smart, you should see the new Android tablets. Based on Android 3 Honeycomb, these tablets provide all the computing power you'll need on a device light enough to carry wherever you go. Get the most out of your Android 3.0 Honeycomb tablet with *Android Tablets Made Simple*, which teaches all the key features, understands what's new, and utilizes dozens of time-saving tips and tricks. *Android Tablets Made Simple* includes over 500 pages of easy-to-read instructions and over 1,000 carefully annotated screen shots to guide you to Android tablet mastery. You'll never be left wondering how they do that. This book guides you through finding and purchasing the right Android tablet, understanding the Android Honeycomb interface, downloading and using tablet apps.

[From Internet of Things to Smart Cities](#) Hongjian Sun, Chao Wang, Bashar I. Ahmad, 2017-09-01. *From Internet of Things to Smart Cities: Enabling Technologies* explores the information and communication technologies (ICT) needed to enable real-time responses to current environmental, technological, societal, and economic challenges. ICT technologies can be utilized to help with reducing carbon emissions, improving resource utilization efficiency, promoting active engagement of citizens, and more. This book aims to introduce the latest ICT technologies and to promote international collaborations across the scientific community and eventually the general public. It consists of three tightly coupled parts. The first part explores the involvement of enabling technologies from basic machine-to-machine communications to Internet of Things technologies. The second part of the book focuses on state-of-the-art data analytics and security techniques, and the last part of the book discusses the design of human-machine interfaces, including smart homes and cities. Features: Provides an extended literature review of relevant technologies in addition to detailed comparison diagrams, making new readers easier to grasp fundamental and wide knowledge. Contains the most recent research results in the field of communications, signal processing, and computing sciences for facilitating smart homes, buildings, and cities. Includes future research directions in Internet of Things, smart homes, smart buildings, smart grid, and smart cities. Presents real examples of applying these enabling technologies to smart homes, transportation systems, and cities. With contributions from leading experts, the book follows an easy structure that not only presents timely research topics in depth but also integrates them into real-world applications to help readers better understand them.

[Principles of Communications](#) Rodger E. Ziemer, William H. Tranter, 2014-03-17. Ziemer and Tranter provide a thorough treatment of the principles of communications at the physical layer, suitable for college seniors beginning



graduate students and practicing engineers This is accomplished by providing overviews of the necessary background in signal system probability and random process theory required for the analog and digital communications topics covered in the book In addition to stressing fundamental concepts the seventh edition features sections on important areas such as spread spectrum cellular communications and orthogonal frequency division multiplexing While the book is aimed at a two semester course more than enough material is provided for structuring courses according to students need and instructor preference

*Enabling 5G Communication Systems to Support Vertical Industries* Muhammad Ali Imran, Yusuf Abdulrahman Sambo, Qammer H. Abbasi, 2019-06-19 How 5G technology can support the demands of multiple vertical industries Recent advances in technology have created new vertical industries that are highly dependent on the availability and reliability of data between multiple locations The 5G system unlike previous generations will be entirely data driven addressing latency resilience connection density coverage area and other vertical industry criteria

*Enabling 5G Communication Systems to Support Vertical Industries* demonstrates how 5G communication systems can meet the needs unique to vertical industries for efficient cost effective delivery of service Covering both theory and practice this book explores solutions to problems in specific industrial sectors including smart transportation smart agriculture smart grid environmental monitoring and disaster management The 5G communication system will have to provide customized solutions to accommodate each vertical industry s specific requirements Whether an industry practitioner designing the next generation of wireless communications or a researcher needing to identify open issues and classify their research this timely book Covers the much discussed topics of supporting multiple vertical industries and new ICT challenges Addresses emerging issues and real world problems surrounding 5G technology in wireless communication and networking Explores a comprehensive array of essential topics such as connected health smart transport smart manufacturing and more Presents important topics in a clear concise style suitable for new learners and professionals alike Includes contributions from experts and industry leaders system diagrams charts tables and examples

*Enabling 5G Communication Systems to Support Vertical Industries* is a valuable resource telecom engineers industry professionals researchers professors doctorate and postgraduate students requiring up to date information on supporting vertical industries with 5G technology systems

**LTE for UMTS** Harri Holma, Antti Toskala, 2011-04-25 Written by experts actively involved in the 3GPP standards and product development

*LTE for UMTS Second Edition* gives a complete and up to date overview of Long Term Evolution LTE in a systematic and clear manner Building upon on the success of the first edition *LTE for UMTS Second Edition* has been revised to now contain improved coverage of the Release 8 LTE details including field performance results transport network self optimized networks and also covering the enhancements done in 3GPP Release 9 This new edition also provides an outlook to Release 10 including the overview of Release 10 LTE Advanced technology components which enable reaching data rates beyond 1 Gbps Key updates for the second edition of *LTE for UMTS* are focused on the new topics from Release 9

Self optimized networks SON Transport network dimensioning Measurement results      **Converged Communications**

Erkki Koivusalo, 2022-11-08 **CONVERGED COMMUNICATIONS** A one of a kind exploration of the past present and future of telecommunications In **Converged Communications Evolution from Telephony to 5G Mobile Internet** telecommunications industry veteran Erkki Koivusalo delivers an essential reference describing how different communications systems work how they have evolved from fixed telephone networks to the latest 5G mobile systems and how the voice and data services converged The central theme of the book is to build deeper understanding about incremental technological progress by introducing both state of the art and their predecessor technologies The book explores four main areas including fixed telephone systems data communication systems mobile cellular systems and IP multimedia systems It clearly explains architectures protocols and functional procedures and discusses a variety of topics ranging from physical layer processes to system level interactions **Converged Communications** offers In depth treatments of fixed telephone and transmission systems including operation of telephone exchanges and signaling systems Comprehensive explorations of data communication systems including transmission of data over telephone lines and data network technologies such as Ethernet and TCP IP Incisive discussions of mobile cellular systems including GSM 3G LTE VoLTE and 5G Insightful analysis of incremental system evolution to justify various design choices made The book is supported with extensive online appendices which covers communication system concepts an overview of standardization various technologies used in the past state of the art technologies such as WLAN cable modems and FTTx complementing the other systems described in the book which have evolved from the fixed telephone network Perfect for network operators system integrators and communication system vendors **Converged Communications Evolution from Telephony to 5G Mobile Internet** will also earn a place in the libraries of undergraduate and graduate students studying telecommunications and mobile systems Constructive comments and improvement proposals about **Converged Communications** or its online appendices can be sent by email to address convergedcommunicationsbook@gmail.com The feedback will be considered for possible new editions of the book or the revisions of the appendices      *Radio Protocols for LTE and LTE-Advanced* SeungJune Yi, SungDuck Chun, YoungDae Lee, SungJun Park, SungHoon Jung, 2012-09-25 Provides a unique focus on radio protocols for LTE and LTE Advanced LTE A Giving readers a valuable understanding of LTE radio protocols this book covers LTE Long Term Evolution Layer 2 3 radio protocols as well as new features including LTE Advanced It is divided into two sections to differentiate between the two technologies characteristics The authors systematically explain the design principles and functions of LTE radio protocols during the development of mobile handsets The book also provides essential knowledge on the interaction between mobile networks and mobile handsets Among the first publications based on the 3GPP R10 specifications which introduces LTE A Beginning with an overview of LTE topics covered include Idle Mode Procedure Packet Data Convergence Protocol and Public Warning Systems Presents the LTE radio interface protocol layers in a readable manner to enhance the material in the

standards publications From an expert author team who have been directly working on the 3GPP standards It is targeted at professionals working or intending to work in the area and can also serve as supplementary reading material for students who need to know how theory on the most extensively used mobile radio interface today is put into practice     **Entity Authentication and Personal Privacy in Future Cellular Systems** Geir M. Koiem,2022-09-01 There are now Q1 2009 more than 4 billion cellular subscribers in the world and this number is constantly growing With this in mind it should be clear that use of mobile communication has already become both pervasive and ubiquitous It has become a global commodity really Entity Authentication and Personal Privacy in Future Cellular Systems aims at explaining and examining access security as it is found in mobile cellular systems A thorough investigation of how access security and personal privacy is handled in the 3GPP system is conducted This includes both the 2G systems GSM GPRS and the 3G system UMTS The emerging fourth generation LTE architecture is also examined The first part of the book deals exclusively with presenting access security as found in the 3GPP system Particular attention is given to the authentication and key agreement procedures The 3GPP systems have evolved and the access security architecture in LTE is substantially more advanced and mature than what you would find in GSM GPRS but even the LTE security architecture has its limitations In part two of the book we go on to examine what is missing from the current cellular access security architectures Some of the shortcomings found in GSM GPRS and later UMTS have been partially addressed in LTE but the burden of backwards compatibility has meant that many issues could not easily be resolved Free from those restrictions we shall see that one can provide substantially improved subscriber privacy and enhanced entity authentication while also avoiding the delegated authentication control that all 3GPP systems have The design of authentication protocols is discussed in depth and this would also include looking into the role of formal verification in the design of security protocols     MOBILE COMMERCE BANDYOPADHYAY, KARABI,2022-12-19 Once the treasured piece of the elite class mobile phones have now become a prerequisite of every commoner From schoolchildren to pensioners from bureaucrats to fruit vendors all depend greatly on their mobile phones now The reason can be given to its impeccable potential to perform various applications efficiently within no time This book on Mobile Commerce gives an in depth insight on the role of a mobile in revolutionizing various industry verticals specifically business and commerce The book in its second edition shows the evolution of a mobile phone from a mere gadget meant for communication to a smarter one performing business transactions The book is divided into seven parts discussing basic concepts technologies key players new products security and legal aspects the future trends and the case studies The book also discusses various technologically advanced handheld devices like Smart phones PDA s Laptops Tablets and Portable Gaming Consoles in detail Besides the basic technology and concepts involved in application of mobile commerce is discussed comprehensively The important concepts like mobile marketing mobile ticketing mobile computing mobile payments and mobile banking are discussed vis a vis latest technologies like wireless and mobile

communication technology digital cellular technology mobile access technology including 5G and 6G systems The book also throws light on the issues such as mobile security hazards and the necessary measures to protect against the same A chapter is devoted to laws governing the mobile phone usage and its privacy The Case Studies are provided elucidating the role of mobile commerce in the real life scenarios This book is intended for the undergraduate and postgraduate students of Computer Applications Electronics Communication Engineering Information Technology and Management NEW TO THE SECOND EDITION Introduction of 5G 6G Technologies Introduction of New Mobile Payment Technologies Implementation of New Security Technologies Development of New Mobile Commerce Services Applications Various Advanced Mobile Computing Systems Implementation of New IT Rules TARGET AUDIENCE BBA MBA BCA MCA B Tech M Tech Electronics Communication Engineering

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