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Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient embedded development framework Selecting, configuring, building, and installing a target-specific kernel Creating a complete target root filesystem Setting up, manipulating, and using solid-state storage devices Installing and configuring a bootloader for the target Cross-compiling a slew of utilities and packages Debugging your embedded system using a plethora of tools and techniques Details are provided for various target architectures and hardware configurations, including a thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting how to build the operating system components from pristine sources and how to find more documentation or help, this book greatly simplifies the task of keeping complete control over one's embedded

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operating system, whether it be for technical or sound financial reasons. Author Karim Yaghmour, a well-known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use of over forty different open source and free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tthttpd, tftp, strace, and gdb are among the packages discussed.

Regime Consolidation and Transitional Justice explores the effect of transitional justice measures on 'regime consolidation', or the means by which a new political system is established in a post-transition context. Focusing on the long-term impact of transitional justice mechanisms in three countries over several decades, the gradual process by which these political systems have been legitimatised is revealed. Through case studies of East and West Germany after World War II, Spain after the end of the Franco dictatorship in 1975 and Turkey's long journey to achieving democratic reform, Regime Consolidation and Transitional Justice shows how transitional justice and regime consolidation are intertwined. The interdisciplinary study, which will be of interest to scholars of criminal law, human rights law, political science, democracy, autocracies and transformation theories, demonstrates, importantly, that the political systems in question are not always 'more' democratic than their predecessors and do not always

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enhance democracy post-regime consolidation.

Physics of New Materials After the discoveries and applications of superconductors, new ceramics, amorphous and nano-materials, shape memory and other intelligent materials, physics became more and more important, comparable with chemistry, in the research and development of advanced materials. In this book, several important fields of physics-oriented new-materials research and physical means of analyses are selected and their fundamental principles and methods are described in a simple and understandable way. It is suitable as a textbook for university materials science courses.

Now in its fourth edition, Introduction to Internal Combustion Engines remains the indispensable text to guide you through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice is sure to help you understand internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. Introduction to Internal Combustion Engines: - Is ideal for students who are following specialist options in internal combustion engines, and also for students at earlier stages in their courses - especially with regard to laboratory work - Will be useful to practising engineers for an overview of the subject, or when they are working on particular aspects of internal combustion engines that are new to them - Is fully updated including

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new material on direct injection spark engines, supercharging and renewable fuels - Offers a wealth of worked examples and end-of-chapter questions to test your knowledge - Has a solutions manual available online for lecturers at www.palgrave.com/engineering/stone

Direct injection enables precise control of the fuel/air mixture so that engines can be tuned for improved power and fuel economy, but ongoing research challenges remain in improving the technology for commercial applications. As fuel prices escalate DI engines are expected to gain in popularity for automotive applications. This important book, in two volumes, reviews the science and technology of different types of DI combustion engines and their fuels. Volume 1 deals with direct injection gasoline and CNG engines, including history and essential principles, approaches to improved fuel economy, design, optimisation, optical techniques and their applications. Reviews key technologies for enhancing direct injection (DI) gasoline engines Examines approaches to improved fuel economy and lower emissions Discusses DI compressed natural gas (CNG) engines and biofuels

MARKETING STRATEGY, 6e, International Edition edition emphasizes teaching students to think and act like marketers. It presents strategy from a perspective that guides strategic marketing management in the social, economic, and technological arenas in which businesses function today--helping students develop a customer-oriented market strategy and market plan. Its practical approach to analyzing, planning,

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and implementing marketing strategies is based on the creative process involved in applying marketing concepts to the development and implementation of marketing strategy. An emphasis on critical thinking enables students to understand the essence of how marketing decisions fit together to create a coherent strategy. Well-grounded in developing and executing a marketing plan, the text offers a complete planning framework, thorough marketing plan worksheets, and a comprehensive marketing plan example for students to follow.

The dramatic evolution of catalytic converters in the last thirty years was a result of a need worldwide to reduce pollution created by the exhaust gases of internal combustion engines. Environmental concerns have led American, Japanese and European Union (EU) legislation to pose continuously stricter emission limits for petrol engines in the last decades. The catalytic converter has become the most important means of exhaust treatment to achieve the desired emission limits. The international legislation has also created a need for a regular assessment of the efficiency of the catalytic converter in order to detect a deterioration of its conversion efficiency as soon as this deterioration takes place. The assessment of conversion efficiency of a catalytic converter can take place during normal driving of a vehicle (on-board diagnosis or OBD) or in a workshop by specialized technicians. The most important methods nowadays are the OBD methods. The evolution of methods concerned with OBD and non-OBD monitoring and diagnosing of efficiency of catalytic converters of internal combustion engines is

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described based on patents and published patent applications. Non-patent references are also used. The basic principles of modern catalytic converters are described in an extensive Introduction, where the importance of monitoring and diagnosing the efficiency of catalytic converters is demonstrated. The book is divided into four parts. The first part describes methods involving the use of oxygen or air/fuel exhaust gas sensors to determine the oxygen storage capacity of a catalytic converter. The second part describes methods involving the use of temperature sensors to determine the exothermic reaction capacity of a catalytic converter. The third part describes all other methods existing in patent literature that monitor and diagnose the efficiency of catalytic converters. The great majority of the methods of the third part involves exhaust gas concentration measurements. The fourth part comprises a general discussion of all methods described. In the beginning of each part, a short introduction is given to explain the problem that the methods attempt to solve. The methods in each part are presented in chronological order per patent applicant. This helps to evaluate how the patent applicant has improved his methods over time. A patent number index with information about the patent applicants, inventors, priorities and patent-families, an inventor index, a company index and a subject index can be found at the end of the book.

Part dictionary, part encyclopaedia, this book features: approximately 4,500 keywords, with detailed cross-references; more than 1,700 illustrations; in-depth

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contributions from industry experts; and current engine development, both theory and practice.

Combining materials from Mercedes-Benz's official archives with information collected from professionals involved with the marque, this book provides a unique, never before seen, perspective on how the brand developed its products to provide transportation solutions across some of the most diverse operating conditions in the world. With rare and previously unpublished photos of working trucks in action, this comprehensive book also features historical information, explanations of model codes, descriptions of models and variations from around the world, and shows some of the biggest, 'baddest' and most unusual Mercedes-Benz trucks from around the globe.

Author Vizard covers blending the bowls, basic porting procedures, as well as pocket porting, porting the intake runners, and many advanced procedures. Advanced procedures include unshrouding valves and developing the ideal port area and angle.

Durch intensive Forschungs- und Entwicklungstätigkeit erreichen Lastkraftwagen und Lastzüge mit der heutigen Antriebstechnik einen hohen technischen Standard. Dieses Buch stellt in der Systematik eines Grundlagenfachbuchs alle wesentlichen Bauarten, Bauformen und Komponenten vor. Neben Grundlagen zu

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Konstruktion und Fertigung von Rahmen und Aufbau, zu Fahrmechanik und Thermodynamik werden neueste Entwicklungen unter Berücksichtigung des zunehmenden Einflusses elektronischer Systeme auf Antrieb und Bremse dargestellt. Die vollständige Neubearbeitung der Fahrdynamik insbesondere die dynamischen Wechselwirkungen bei der Aerodynamik mit ihren instationären Komponenten kennzeichnen die Bearbeitung. "Nutzfahrzeugtechnik" bietet wertvolle Hilfe für alle Ingenieure in Praxis und Studium, die nach umfassender Information auf dem Sektor suchen.

1 The Development of the Sports Car.- Motor sport.- The sports car.- The history of the sports car.- The first sports car.- The fabulous years.- Historic sports cars.- The future of the sports car.- 2 The Engine: Combustion.- Cylinder head history.- Combustion chamber research.- Volumetric efficiency.- Knock.- Limiting compression ratio.- Types of combustion chamber.- 3 The Engine: Induction and Exhaust.- The induction system.- The 4-cylinder in-line engine.- The 6-cylinder in-line engine.- The V-8 engine.- Ramming induction pipes.- Ramming pipe theory.- Forward-ram intakes.- Cold-air intakes.

Der DUBBEL ist seit Generationen das Standardwerk der Ingenieure mit dem Anwendungsschwerpunkt Maschinen- und Anlagentechnik. Er wird laufend neubearbeitet und somit stets auf aktuellem Stand der Technik gehalten. Nicht

nur als Lehrmittel, sondern auch als Nachschlagewerk stellt das Buch das Basis- und Detailwissen der folgenden Gebiete bereit: Mathematik, Mechanik, Festigkeitslehre, Thermodynamik, Werkstofftechnik, Konstruktionstechnik, Mechanische Konstruktionselemente, Fluidische Antriebe, Mechatronische Systeme, Komponenten des thermischen Apparatebaus, Energietechnik, Klimatechnik, Verfahrenstechnik, Maschinendynamik, Kolbenmaschinen, Fahr- u. Flugzeugtechnik, Strömungsmaschinen, Fertigungsverfahren und -mittel, Fördertechnik, Elektrotechnik, Mess- und Regelungstechnik, Elektronische Datenverarbeitung, Allgemeine Tabellen.

Dieses Werk behandelt die Nutzfahrzeugtechnik, die durch die unterschiedlichsten Aufgaben, die Nutzfahrzeuge übernehmen müssen, ein weites Themenfeld umfasst. Bei der Entwicklung eines solchen Fahrzeuges muss berücksichtigt werden, dass es möglicherweise zum Langstrecken-Gütertransport oder zur Straßenreinigung eingesetzt werden wird. Bei der Umsetzung von technischen Lösungen müssen rechtliche Restriktionen und ökonomische Anforderungen umgesetzt werden. Diesem Themenfeld möchte das Buch gerecht werden, indem es über die rechtlichen Grundlagen, die Fahrphysik, die Fahrgestell- und Aufbaukonstruktion sowie die Antriebstechnik informiert. Auch die Elektronik spielt durch die wachsende Anzahl von

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Fahrerassistenzsystemen ebenso wie die Motor- und Getriebesteuerung eine wichtige Rolle. Besonders hervorzuheben ist die Nutzfahrzeugaerodynamik, welche hier intensiv behandelt wird, da sie im Zuge der CO₂-Diskussion einen wertvollen Beitrag leisten kann. Dabei steht das Verständnis des Gesamtfahrzeugs im Vordergrund. Der Leser wird nach der Lektüre das Zusammenspiel von Einsatzzweck, gesetzlichen Vorgaben, Fahrphysik und den daraus folgenden Nutzfahrzeugkomponenten verstehen und auf dieser Basis Entscheidungen treffen können.

This book reviews the progress made in salivary diagnostics during the past two decades and identifies the likely direction of future endeavors. After an introductory section describing the histological and anatomical features of the salivary glands and salivary function, salivary collection devices and diagnostic platforms are reviewed. The field of “salivaomics” is then considered in detail, covering, for example, proteomics, the peptidome, DNA and RNA analysis, biomarkers, and methods for biomarker discovery. Salivary diagnostics for oral and systemic diseases are thoroughly discussed, and the role of salivary gland tissue engineering for future diagnostics is explored. The book closes by considering legal issues and barriers to salivary diagnostic development. *Advances in Salivary Diagnostics* will be an informative and stimulating reference for both practitioners and students.

Von Technik und Geschichte der Rad- und Kettenfahrzeuge der deutschen Streitkräfte in Ost und West seit 1945". Einzeldarstellungen wie "Die Kampfpanzer der NVA" (ID 48/96) bzw.

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"Schwere Jagdpanzer" (ID 6/94) etc. wurden bereits in der Reihe "Militärfahrzeuge" im gleichen Verlag veröffentlicht, die kompakte Gesamtdarstellung dieses neuen Werkes ist z. Zt. tatsächlich konkurrenzlos. Auf empfindlichem Hochglanzpapier gedruckt - nur mit mäßigen Schwarz-Weiss-Illustrationen versehen, worauf allerdings im Vorwort hingewiesen wird -, wird eine immense Fülle an Daten geboten: Vom Krafrad bis zur Strassenbaumaschine wird alles mit ausführlichsten technischen Daten in Übersichtstabellen behandelt - getrennt in Bundeswehr- und NVA-Teil. Ein Abkürzungsverzeichnis ist dankenswerterweise vorhanden, das Inhaltsverzeichnis muss allerdings wieder einmal die Registerrolle mit übernehmen. Militärtechnisch interessierte Leser gibt es zwar überall, trotzdem eher für ausgebaute Bestände. (3).

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United

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States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

One of the next challenges in vehicular technology field is to improve drastically the road safety. Current developments are focusing on both vehicle platform and diverse assistance systems. This book presents a new engineering approach based on lean vehicle architecture ready for the drive-by-wire technology. Based on a cognitive functionality split, execution and command levels are detailed. The execution level centralized over the stability control performs the motion vector coming from the command level. At this level the driver generates a motion vector which is continuously monitored by a virtual co-pilot. The integration of assistance systems in a safety relevant multi-agent system is presented here to provide first an adequate feedback to the driver to let him recover a dangerous situation. Robust strategies are also presented for the intervention phase once the command vehicle has to be optimized to stay within the safety envelope.

Das Buch spannt einen Bogen von einfachen thermodynamischen Grundlagen des

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Verbrennungsmotors hin zu komplexen Modellansätzen zur Beschreibung der Gemischbildung, Zündung, Verbrennung und Schadstoffbildung unter Beachtung der Motorperipherie von Otto- und Dieselmotoren. Damit liegt der inhaltliche Schwerpunkt des Buches auf den Simulationsmodellen und deren strömungstechnischen, thermodynamischen und verbrennungschemischen Grundlagen, wie sie für die Entwicklung moderner Verbrennungsmotoren unentbehrlich sind. Neu in die aktuelle Auflage aufgenommen wurden die Themen: Auslegung von Verbrennungsmotoren, zukünftige Brennstoffe, Downsizing, Hybridantriebe und Range Extender, Nfz- und Groß- Dieselmotoren, Einspritz- und Aufladesysteme, Schadstoffreduktion sowie Optimierungsstrategien.

W ramach prezentowanego podręcznika pn. "Szkolenie Kierowców - Konserwatorów sprzętu ratowniczego OSP" znajdują się materiały zawierające 10 tematów przeznaczonych do realizacji w czasie 17 godzin wykąadów. W podręczniku omówione zostały następujące kwestie: Prawa i obowiązki kierowcy samochodu poarniczego, Charakterystyka podstawowych samochodów poarnicznych, Zasady bezpieczeństwa prowadzenia i ustawiania samochodów poarnicznych, Konserwacja i eksploatacja motopomp i autopomp, Konserwacja i eksploatacja agregatów prądowrczych i osprzętu, Konserwacja i eksploatacja hydraulicznych urządzeń ratowniczych oraz pi, Obsługa techniczna samochodów poarnicznych, Zasady eksploatacji sprzętu ochrony dróg oddechowych, czno i alarmowanie. Wydawnictwo CNBOP-PIB

Praise for the previous edition: "Contains something for everyone involved in lubricant technology" — Chemistry & Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the

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business. The authors take into account the interdisciplinary character of the field, considering aspects of engineering, materials science, chemistry, health and safety. The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, focusing not only on the various products but also on specific application engineering criteria. A classic reference work, completely revised and updated (approximately 35% new material) focusing on sustainability and the latest developments, technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety. New guidelines, such as REACH, recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro- and nano-tribology and lubrication systems Reflects the knowledge of Fuchs Petrolub SE, one of the largest companies active in the lubrication business 2 Volumes wileyonlinelibrary.com/ref/lubricants

The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the

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coronavirus disease (COVID-19) crisis.

La rivista tecnica diesel Mercedes Actros, è un manuale di manutenzione e riparazione per officina che tratta caratteristiche, diagnosi, messa a punto e riparazione del veicolo pesante in oggetto. Il manuale Mercedes Actros, offre inoltre utili schede tecniche del motore che sintetizzano di tutte le informazioni necessarie per intervenire su questo modello.

You don't have to be an ancient Chinese philosopher to understand and cultivate chi-if you've ever had acupuncture or done yoga, you've taken care of your chi! Feng shui, the world's most popular way to organize and decorate for success, can be applied to the body with simple tips that create better health and a successful, happier life. And nurturing your chi is easier than you think. In this practical and insightful book, Skye Alexander gives you myriad tips to strengthen your vitality.

This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and

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authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

Pacific Languages introduces readers to the grammatical features of Oceanic, Papuan, and Australian languages as well as to the semantic structures of these languages. For readers without a formal linguistic background, a brief introduction to descriptive linguistics is provided.

This publication is a comprehensive assessment of leading risks to global health. It provides detailed global and regional estimates of premature mortality, disability and loss of health attributable to 24 global risk factors.--Publisher's description.

Surveys the systems, manufacturers and consultants within the global market. City by city, you can analyse and review both current operations and future plans. Provides traffic statistics, fleet lists and numbers in service. Provides contact details and background of approx. 1,500 manufacturers

Adaptive Cooperation between Driver and Assistant SystemImproving Road SafetySpringer Science & Business Media

Made to Break is a history of twentieth-century technology as seen through the prism of obsolescence. Giles Slade explains how disposability was a necessary condition for America's rejection of tradition and our acceptance of change and impermanence. This book gives us a detailed and harrowing picture of how, by choosing to support ever-shorter product lives, we may well be shortening the future of our way of life as well.

Helen Hardacre, a leading scholar of religious life in modern Japan, examines the Japanese

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state's involvement in and manipulation of shinto from the Meiji Restoration to the present. Nowhere else in modern history do we find so pronounced an example of government sponsorship of a religion as in Japan's support of shinto. How did that sponsorship come about and how was it maintained? How was it dismantled after World War II? What attempts are being made today to reconstruct it? In answering these questions, Hardacre shows why State shinto symbols, such as the Yasukuni Shrine and its prefectural branches, are still the focus for bitter struggles over who will have the right to articulate their significance. Where previous studies have emphasized the state bureaucracy responsible for the administration of shinto, Hardacre goes to the periphery of Japanese society. She demonstrates that leaders and adherents of popular religious movements, independent religious entrepreneurs, women seeking to raise the prestige of their households, and men with political ambitions all found an association with shinto useful for self-promotion; local-level civil administrations and parish organizations have consistently patronized shinto as a way to raise the prospects of provincial communities. A conduit for access to the prestige of the state, shinto has increased not only the power of the center of society over the periphery but also the power of the periphery over the center.

"Find the sick, the suffering and the lonely right there where you are. . . . You can find Calcutta all over the world, if you have the eyes to see." --Mother Teresa Lifelong educator Mary Poplin, after experiencing a newfound awakening to faith, sent a letter to Calcutta asking if she could visit Mother Teresa and volunteer with the Missionaries of Charity. She received a response saying, "You are welcome to share in our works of love for the poorest of the poor." So in the spring of 1996, Poplin spent two months in Calcutta as a volunteer. There she observed

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Mother Teresa's life of work and service to the poor, participating in the community's commitments to simplicity and mercy. Mother Teresa's unabashedly religious work stands in countercultural contrast to the limitations of our secular age. Poplin's journey gives us an inside glimpse into one of the most influential lives of the twentieth century and the lessons Mother Teresa continues to offer. Upon Poplin's return, she soon discovered that God was calling her to serve the university world with the same kind of holistic service with which Mother Teresa served Calcutta. Not everyone can go to Calcutta. But all of us can find our own meaningful work and service. Come and answer the call to find your Calcutta!

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