

2013 Paper E2 1 Digital Electronics li

Latvia enjoys strong economic growth and the catch up with living standards in higher income OECD countries continues. Much remains to be done, though, to close the remaining gap and improve equal access to social protection and economic opportunities. Latvia faces one of the fastest declines in its working age population among OECD countries due to ageing and migration. Strong productivity growth is needed to counter this demographic challenge and improve living standards faster.

For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Exploring how scholars use digital resources to reconstruct the 19th century, this volume probes key issues in the intersection of digital humanities and history. Part I examines the potential of online research tools for literary scholarship while Part II outlines a prehistory of digital virtuality by exploring specific Victorian cultural forms.

This book defines the phenomenon of mHealth and its

evolution, explaining why an understanding of mHealth is critical for decision makers, entrepreneurs and policy analysts who are pivotal to developing products that meet the collaborative health information needs of consumers and providers in a competitive and rapidly-changing environment. The book examines trends in mHealth and discusses how mHealth technologies offer opportunities for innovators and entrepreneurs, those who often are industry first-movers with regard to technology advancement. It also explores the changing dynamics and relationships among physicians, patients, insurers, regulators, managers, administrators, caregivers and others involved in the delivery of health services. The primary focus is on the ways in which mHealth technologies are revising and reshaping healthcare delivery systems in the United States and globally and how those changes are expected to change the ways in which the business of healthcare is conducted. mHealth: Transforming Healthcare consists of nine chapters that addresses key content areas, including history (to the extent that dynamic technologies have a history), projection of immediate evolution and consistent issues associated with health technology, such as security and information privacy and government and industry regulation. A major point of discussion addressed is whether mHealth is a transient group of products and a passing patient encounter approach, or if it is the way much of our health care will be delivered in future years with incremental evolution to achieve sustainable innovation of health technologies. The authors of this volume address multiple questions

involving the nature of youth protest in the twenty-first century. Through their use of a case study approach, they comment upon the ways in which youth protest has been influenced by the electronic and social media and evaluate the effectiveness of protest activities, many of which were framed in reaction to neo-liberalism and state authoritarianism. A number of the authors further comment upon the utility of employing social movement theory to analyze the nature and character of protest actions, while others situate such events within specific political, social and cultural contexts. The case studies focus upon protest activities in Bahrain, Turkey, Iran, Cambodia, South Africa, China, Russia, Chile, Spain, and the U.S., and together, they offer a comparative analysis of an important global phenomenon. In so doing, the authors further address issues involving the changing nature of globalized protest participation, its immediate and long-term consequences, and the ways in which protests have encouraged a re-evaluation of the nature of inequality, as constructed within educational, social, and political spheres.

This edited collection brings together distinguished scholars across a range of academic disciplines to explore how the European Union engages with culture. The book examines the ways in which cultural issues have been framed at the EU level and the policies and instruments to which they have given vent.

Syria is now one of the most important countries in the world for the documentary film industry. Since the 1970s, Syrian cinema masters played a defining role in avant-garde filmmaking and political dissent against

authoritarianism. After the outbreak of violence in 2011, an estimated 500,000 video clips were uploaded making it one of the first YouTubed revolutions in history. This book is the first history of documentary filmmaking in Syria. Based on extensive media ethnography and in-depth interviews with Syrian filmmakers in exile, the book offers an archival analysis of the documentary work by masters of Syrian cinema, such as Nabil Maleh, Ossama Mohammed, Mohammed Malas, Hala Al Abdallah, Hanna Ward, Ali Atassi and Omar Amiralay. Joshka Wessels traces how the works of these filmmakers became iconic for a new generation of filmmakers at the beginning of the 21st century and maps the radical change in the documentary landscape after the revolution of 2011. Special attention is paid to the late Syrian filmmaker and pro-democracy activist, Bassel Shehadeh, and the video-resistance from Aleppo and Raqqa against the regime of President Bashar al-Assad and the Islamic State. An essential resource for scholars of Syrian Studies, this book will also be highly relevant to the fields of media & conflict research, anthropology and political science.

The Routledge Handbook of Literacy Studies offers a comprehensive view of the field of language and literacy studies. With forty-three chapters reflecting new research from leading scholars in the field, the handbook pushes at the boundaries of existing fields and combines with related fields and disciplines to develop a lens on contemporary scholarship and emergent fields of inquiry. The Handbook is divided into eight sections: The foundations of literacy studies Space-focused

approaches Time-focused approaches Multimodal approaches Digital approaches Hermeneutic approaches Making meaning from the everyday Co-constructing literacies with communities This is the first handbook of literacy studies to recognise new trends and evolving trajectories together with a focus on radical epistemologies of literacy. The Routledge Handbook of Literacy Studies is an essential reference for undergraduate and postgraduate students and those researching and working in the areas of applied linguistics and language and literacy.

Book covers past 5 years questions(2013-2017) from previous GATE examinations.

GATE Computer Science and Information Technology 2013-17 Solved PapersDisha Publications

A selection of 50 papers presented at CAA2016. Papers are grouped under the following headings: Ontologies and Standards; Field and Laboratory Data Recording and Analysis; Archaeological Information Systems; GIS and Spatial Analysis; 3D and Visualisation; Complex Systems Simulation; Teaching Archaeology in the Digital Age.

"This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives, offering an emphasis on assessment mechanisms and learning theory"-- Developed by experienced professionals from reputed civil services coaching institutes and recommended by many aspirants of Civil Services Preliminary exam, General Studies Paper - I contains Precise and Thorough Knowledge of Concepts and Theories essential to go through the prestigious exam. Solved Examples are given to explain all the concepts for thorough learning. Explanatory Notes have been provided in every chapter for better understanding of

the problems asked in the exam. #v&spublishers

Featuring a timely presentation of total survey error (TSE), this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large-scale data sets. This book provides an overview of the TSE framework and current TSE research as related to survey design, data collection, estimation, and analysis. It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality. The book also addresses issues with data quality in official statistics and in social, opinion, and market research as these fields continue to evolve, leading to larger and messier data sets. This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality. The volume consists of the most up-to-date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields. The chapters are broken out into five main sections: The Concept of TSE and the TSE Paradigm, Implications for Survey Design, Data Collection and Data Processing Applications, Evaluation and Improvement, and Estimation and Analysis. Each chapter introduces and examines multiple error sources, such as sampling error, measurement error, and nonresponse error, which often offer the greatest risks to data quality, while also encouraging readers not to lose sight of the less commonly studied error sources, such as coverage error, processing error, and specification error. The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another, resulting in an estimate with larger total error. This book:

- Features various error sources, and the complex relationships between them, in 25 high-quality chapters on the most up-to-date research in

the field of TSE • Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects • Presents examples of recent international events that demonstrate the effects of data error, the importance of survey data quality, and the real-world issues that arise from these errors • Spans the four pillars of the total survey error paradigm (design, data collection, evaluation and analysis) to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science, public opinion, public policy, and business. It can also be used as a textbook or supplementary material for a graduate-level course in survey research methods.

A comprehensive doctrinal analysis of cybercrime laws in four major common law jurisdictions: Australia, Canada, the UK and the USA.

There has been much attention paid to the idea of Smart Cities as researchers have sought to define and characterize the main aspects of the concept, including the role of creative industries in urban growth, the importance of social capital in urban development, and the role of urban sustainability. This book develops a critical view of the Smart City concept, the incentives and role of governments in promoting the development of Smart Cities and the analysis of experiences of e-government projects addressed to enhance Smart Cities. This book further analyzes the perceptions of stakeholders, such as public managers or politicians, regarding the incentives and role of governments in Smart Cities and the critical analysis of e-government projects to promote Smart Cities' development, making the book valuable to academics, researchers, policy-makers, public managers, international organizations and technical experts in understanding the role

of government to enhance Smart Cities' projects.

This book explores the technologies that can be used in curricula to make education “smarter” and more adaptive in order to better meet the needs of today’s learners. The main emphasis is based on the theory and best practices of incorporating emerging technologies into curricula so as to educate learners in the 21st century. The book provides valuable insights into the future of education and examines which pedagogies are most suitable for integrating emerging technologies. It will help educators and stakeholders design and implement curricula that effectively prepare learners for the challenges of tomorrow.

Why do we share so much about our lives on social media when we often have little idea who might be reading or viewing? David R. Brake examines the causes and consequences of moving towards a radically open society. *Selling Digital Music, Formatting Culture* documents the transition of recorded music on CDs to music as digital files on computers. More than two decades after the first digital music files began circulating in online archives and playing through new software media players, we have yet to fully internalize the cultural and aesthetic consequences of these shifts. Tracing the emergence of what Jeremy Wade Morris calls the “digital music commodity,” *Selling Digital Music, Formatting Culture* considers how a conflicted assemblage of technologies, users, and industries helped reformat popular music’s meanings and uses. Through case studies of five key technologies—Winamp, metadata, Napster, iTunes, and cloud computing—this book explores how music listeners gradually came to understand computers and digital files as suitable replacements for their stereos and CD. Morris connects industrial production, popular culture, technology, and commerce in a narrative involving the aesthetics of music and computers, and the labor of producers and everyday

users, as well as the value that listeners make and take from digital objects and cultural goods. Above all, *Selling Digital Music, Formatting Culture* is a sounding out of music's encounters with the interfaces, metadata, and algorithms of digital culture and of why the shifting form of the music commodity matters for the music and other media we love. Space-critical infrastructures represent an interdependent system of systems consisting of workforce, environment, facilities, and multidirectional interactions. These are essential for the maintenance of vital societal functions such as health, safety, security, mobility, and the economic and social well-being of people, and their destruction or disruption would have a significant impact on society as a whole. In all, 79 nations and government consortia currently operate satellites, with 11 countries operating 22 launch sites. Despite creating new challenges, this multi-actor environment offers opportunities for international cooperation, but making the most of these opportunities requires a holistic approach to space-critical infrastructure, away from strictly defined space technologies and towards understanding the resilience of complex systems and how they are intertwined in reality. This book presents papers from the NATO Advanced Research Workshop (ARW), entitled *Critical Space Infrastructure: From Vulnerabilities and Threats to Resilience*, held in Norfolk, Virginia, USA from 21-22 May 2019. The ARW brought together representatives from academia, industry, and international organizations in an effort to deepen scientific and technological understanding of space-critical infrastructures and explore the implications for national and international space security and resilience. It examined space as a critical infrastructure from a multidisciplinary perspective in accordance with NATO's Strategic Concept. The 29 chapters in the book are divided into six sections covering space infrastructure: governance; cybersecurity; risk,

resiliency and complexity; emerging technologies such as block chain, artificial intelligence and quantum computing; application domains; and national approaches and applications.

The revival of major world power rivalry is a striking feature of the current international affairs. In the year gone by, Europe, supported by the US, vied with Russia for influence in Ukraine—a race that led to the annexation of Crimea by Russia and a pro-Russian insurgency in that region. In Asia, while the US is gradually drawing down in Afghanistan, it is also seeking to counter the growing influence of China. The sole Super Power is garnering support from China's neighbours, India included, to balance the resurgent Dragon. Meanwhile, the rapid growth of ISIS has disturbed the world peace. The progress made in the negotiations on Iran's nuclear programme is likely to affect calculations and equations all over the world. No region is impervious to the happenings in another part of the world. Competition (read rivalries) and geopolitical shifts pose myriad challenges to the peace-loving nations of the world—quite often, they are faced with the difficulty of evading armed conflicts. It requires conscious and sustained effort to do so. In order to work towards such goals, it is necessary to look at geopolitical, security and military-related issues objectively. The Centre for Air Power Studies has been publishing the Asian Defence Review to fulfill this need. This volume, a resource base for both the professional and the general readers, is the eighth in the series under this title. It aims to add to the pool of information and knowledge in the current strategic discourse dealing with military strategy, defence, politics and trends in military capabilities that impact Asia. In particular, it covers some of the important issues related to Air Power, Tactical Nuclear Weapons, Cyber Security, Network-Centric Warfare, Environmental Degradation, Iran, Pakistan and China.

In more ways than one, assistive technologies can have a profound impact on humans and their operations within society. Understanding these emerging technologies is crucial to their effective use in improving human lives. *Human-Computer Interfaces and Interactivity: Emergent Research and Applications* aims to address the main issues of interest within the culture and design of interactive systems for individuals living with disabilities. This premier reference work addresses a range of approaches including, but not limited to, the conceptual, technological, and design issues related to human-computer interaction, issues of interest to a range of individuals including academics, university teachers, researchers, post-graduate students, public and private institutions, and HCI developers and researchers.

Digital Preservation in Libraries, Archives, and Museums represents a new approach to getting started with digital preservation: that of what cultural heritage professionals need to know as they begin their work. For administrators and practitioners alike, the information in this book is presented readably, focusing on management issues and best practices. Although this book addresses technology, it is not solely focused on technology. After all, technology changes and digital preservation is aimed for the long term. This is not a how-to book giving step-by-step processes for certain materials in a given kind of system. Instead, it addresses a broad group of resources that could be housed in any number of digital preservation systems. Finally, this book is about “things (not technology; not how-to; not theory) I wish I knew before I got started.” Digital preservation is concerned with the life cycle of the digital object in a robust and all-inclusive way. Many Europeans and some North Americans may refer to digital curation to mean the same thing, taking digital preservation to be the very limited steps and processes needed to insure access over the long term. The authors take

digital preservation in the broadest sense of the term: looking at all aspects of curating and preserving digital content for long term access. The book is divided into four parts based on the Digital Preservation Triad: Situating Digital Preservation, Management Aspects, Technology Aspects, and Content-Related Aspects. The book includes a foreword by Michael Lesk, eminent scholar and forerunner in digital librarianship and preservation. The book features an appendix providing additional information and resources for digital preservationists. Finally, there is a glossary to support a clear understanding of the terms presented in the book. Digital Preservation will answer questions that you might not have even known you had, leading to more successful digital preservation initiatives.

The Mediterranean refugee crisis presents states across Europe with a common security challenge: how to intervene responsibly in mitigation and support. This book seeks to advance the UN concept of 'human security' in showing how a human security approach to the crisis can effectively conceptualize and respond to the intricacies of the challenges faced. It argues for a politics of solidarity in proffering integrated solutions that call out the failure of top-down, statist security measures. Leading international authors from a range of disciplines document key dimensions of the crisis, including: the legal mechanisms enabling or blocking asylum; the biopolitical systems for managing displaced peoples; and the multiple, overlapping historical precedents of today's challenges.

The volume contains the papers presented at FICTA 2012: International Conference on Frontiers in Intelligent Computing: Theory and Applications held on December 22-23, 2012 in Bhubaneswar engineering College, Bhubaneswar, Odissa, India. It contains 86 papers

contributed by authors from the globe. These research papers mainly focused on application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm, particle swarm optimization techniques, teaching-learning based optimization etc for various engineering applications such as data mining, image processing, cloud computing, networking etc.

In a world that is essentially digitizing, some have argued that the idea of the knowledge society holds the greatest promise for Africa's rapid socio-economic transformation. Impacts of the Knowledge Society on Economic and Social Growth in Africa aims to catalyze thinking and provide relevant information on the complex ways in which the information age is shaping Africa and the implications that this will have for the continent and the world. This premier reference volume will provide policy analysts, policymakers, academics, and researchers with fresh insights into the key empirical and theoretical matters framing Africa's ongoing digitization.

Navy analysts are struggling to keep pace with the growing flood of data collected by intelligence, surveillance, and reconnaissance sensors. This challenge is sure to intensify as the Navy continues to field new and additional sensors. The authors explore options for solving the Navy's "big data" challenge, considering changes across four dimensions: people, tools and technology, data and data architectures, and demand and demand management.

Digital Dilemmas looks at the dynamics of power and resistance surrounding the internet. It focuses on how

publics, nation-states, and multilateral institutions are being continually reinvented in local and global decision-making domains that are accessed and controlled by a relative few. Importantly it unpacks the ways in which computer-mediated power relations play out as "on the ground" and "cyberspatial" practices and discourses that collude and collide with one another at the personal, community, and transnational level. Case studies include homelessness and the internet, rights-based advocacy for the online environment at the United Nations, and how the ongoing battle between proprietary and open source software designs affects ordinary people and policy-making. The result is an innovative and groundbreaking critique of the way new paradigms of power and resistance forged online reshape traditional power hierarchies offline, at home and abroad.

We wait in lines around the block for scoops of cookie dough. We photograph every meal. We visit selfie performance spaces and leave lucrative jobs to become farmers and craft brewers. Why? What are we really hungry for? In *Hungry*, Eve Turow-Paul provides a guided tour through the stranger corners of today's global food and lifestyle culture. How are 21st-century innovations and pressures are redefining people's needs and desires? How does "foodie" culture, along with other lifestyle trends, provide an answer to our rising rates of stress, loneliness, anxiety, and depression? Weaving together evolutionary psychology and sociology with captivating investigative reporting from around the world, Turow-Paul reveals the modern hungers—physical, spiritual, and emotional—that are driving today's top

trends: • The connection between the "death" of the cereal industry and access to work email on our smartphones • How posting images of our dinners on social media both fulfills and feeds our hunger for human connection in an increasingly isolated world • The ways "diet tribes" and boutique fitness gyms substitute for organized religion • How access to round-the-clock news relates to the blowback against GMO foods • Wellness retreats, astrology, plant parenthood, and other methods of easing modern anxiety • Why "eating local" might be the key to solving not just climate change, but our current global sense of disconnection From gluten-free and Paleo diets to meal kit subscriptions, and from mukbang broadcast jockeys to craft beer, Hungry deepens our understanding of why we do what we do, and helps us find greater purpose and joy in today's technology-altered world.

This volume of three books presents recent advances in modelling, planning and evaluating city logistics for sustainable and liveable cities based on the application of ICT (Information and Communication Technology) and ITS (Intelligent Transport Systems). It highlights modelling the behaviour of stakeholders who are involved in city logistics as well as planning and managing policy measures of city logistics including cooperative freight transport systems in public-private partnerships. Case studies of implementing and evaluating city logistics measures in terms of economic, social and environmental benefits from major cities around the world are also given.

Introduction to Sociology 2e adheres to the scope and

sequence of a typical, one-semester introductory sociology course. It offers comprehensive coverage of core concepts, foundational scholars, and emerging theories, which are supported by a wealth of engaging learning materials. The textbook presents detailed section reviews with rich questions, discussions that help students apply their knowledge, and features that draw learners into the discipline in meaningful ways. The second edition retains the book's conceptual organization, aligning to most courses, and has been significantly updated to reflect the latest research and provide examples most relevant to today's students. In order to help instructors transition to the revised version, the 2e changes are described within the preface. The images in this textbook are grayscale. Authors include: Heather Griffiths, Nathan Keirns, Eric Strayer, Susan Cody-Rydzewski, Gail Scaramuzzo, Tommy Sadler, Sally Vyain, Jeff Bry, Faye Jones

Audio Production Tips: Getting the Sound Right at the Source provides practical and accessible information detailing the production processes for recording today's bands. By demonstrating how to "get the sound right at the source," author Peter Dowsett lays the appropriate framework to discuss the technical requirements of optimizing the sound of a source. Through its coverage of critical listening, pre-production, arrangement, drum tuning, gain staging and many other areas of music production, Audio Production Tips allows you to build the wide array of skills that apply to the creative process of music production. Broken into two parts, the book first presents foundational concepts followed by more specific

production advice on a range of instruments. Key features: Important in-depth coverage of music theory, arrangement and its applications. Real life examples with key references to the author's music production background. Presents concepts alongside the production of a track captured specifically for the book. A detailed companion website, including audio, video, Pro Tools session files of the track recording process, and videos including accompanying audio that can be examined in the reader's DAW. Please visit the accompanying companion website, available at www.audioproductiontips.com, for resources that further support the book's practical approach.

The labour markets and European societies as a whole are subject to constant change. One way to face these challenges is the application of "entrepreneurial skills" like self-motivation, time management etc. The authors give examples of entrepreneurship in the fields of digitalization, social innovation, and eco-innovation and present special groups of entrepreneurs (e.g. migrants) and their entrepreneurial spirit. Thus, the readers get insight in how an innovative and competitive Europe can look like.

Makeology introduces the emerging landscape of the Maker Movement and its connection to interest-driven learning. While the movement is fueled in part by new tools, technologies, and online communities available to today's makers, its simultaneous emphasis on engaging the world through design and sharing with others harkens back to early educational predecessors including Froebel, Dewey, Montessori, and Papert.

Makerspaces as Learning Environments (Volume 1) focuses on making in a variety of educational ecosystems, spanning nursery schools, K-12 environments, higher education, museums, and after-school spaces. Each chapter closes with a set of practical takeaways for educators, researchers, and parents.

This comprehensive handbook synthesizes the often-fractured relationship between the study of biology and the study of society. Bringing together a compelling array of interdisciplinary contributions, the authors demonstrate how nuanced attention to both the biological and social sciences opens up novel perspectives upon some of the most significant sociological, anthropological, philosophical and biological questions of our era. The six sections cover topics ranging from genomics and epigenetics, to neuroscience and psychology to social epidemiology and medicine. The authors collaboratively present state-of-the-art research and perspectives in some of the most intriguing areas of what can be called biosocial and biocultural approaches, demonstrating how quickly we are moving beyond the acrimonious debates that characterized the border between biology and society for most of the twentieth century. This landmark volume will be an extremely valuable resource for scholars and practitioners in all areas of the social and biological sciences. The chapter 'Ten Theses on the Subject of Biology and Politics: Conceptual, Methodological, and Biopolitical Considerations' is open access under a CC BY 4.0 license via link.springer.com. Versions of the

chapters 'The Transcendence of the Social', 'Scrutinizing the Epigenetics Revolution', 'Species of Biocapital, 2008, and Speciating Biocapital, 2017' and 'Experimental Entanglements: Social Science and Neuroscience Beyond Interdisciplinarity' are available open access via third parties. For further information please see license information in the chapters or on link.springer.com. Complete coverage of the specifications to fully prepare students for the summative projects and e-portfolio assessment style.

In the 1960s, as gentrification took hold of New York City, Jane Jacobs predicted that the city would become the true player in the global system. Indeed, in the 21st century more meaningful comparisons can be made between cities than between nations and states. Based on case studies of Melbourne, Austin and Berlin, this book is the first in-depth study to combine academic and industry analysis of the music cities phenomenon. Using four distinctly defined algorithms as benchmarks, it interrogates Richard Florida's creative cities thesis and applies a much-needed synergy of urban sociology and musicology to the concept, mediated by a journalism lens. Building on seminal work by Robert Park, Lewis Mumford and Jane Jacobs, it argues that journalists are the cultural branders and street theorists whose ethnographic approach offers critical insights into the urban sociability of music activity.

This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from

October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas. The use of technology has a profound influence in educational settings and has experienced significant paradigm shifts with the advents of e-learning and m-learning. As an expected consequence of the evolution of e-learning and m-learning and improvements in the capability of online networked technologies, educators from the fields of distance education and open and distance learning benefit from ubiquitous learning technologies and environments. With the rising import of flexibility and personalization of online learning programs, this new learning format is needed to accommodate shifting student needs. *Managing and Designing Online Courses in Ubiquitous Learning Environments* is a critical scholarly resource that provides empirical and theoretical research focused on the effective construction and management of advanced online educational environments. Highlighting a variety of topics such as heutagogy, technology integration, and educational resources, this book is essential for educators, curriculum developers, higher education staff, practitioners, academicians, instructional designers, administrators, policymakers, and researchers. This landmark collection will help readers understand the open access movement, open data, open educational resources, open knowledge, and the opportunities for an open and transformed world they promise.

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