Pro Net Benchmarking The Art Of Performance Measu

Use this in-depth guide to correctly design

Performance Measu benchmarks, measure key performance metrics of .NET applications, and analyze results. This book presents dozens of case studies to help you understand complicated

Performance Measu benchmarking topics. You will avoid common pitfalls, control the accuracy of your measurements, and improve performance of your software. Author

Andrey Akinshin has maintained BenchmarkDotNet (the most popular .NET library for benchmarking) for five years and covers common mistakes that

developers usually make in their benchmarks. This book includes not only .NET-specific content but also essential knowledge about performance measurements which can

be applied to any language or platform (common benchmarking methodology, statistics, and low-level features of modern hardware). What You'll Learn Be aware of

Performance Measu the best practices for writing benchmarks and performance tests Avoid the common benchmarking pitfalls Know the hardware and software factors that

affect application performance Analyze performance measurements Who This Book Is For .NET developers concerned with the performance of

their applications Understand .NET memory management internal workings, pitfalls, and techniques in order to effectively avoid a wide range of performance and

scalability problems in your software. Despite automatic memory management in .NET, there are many advantages to be found in understanding how .NET

memory works and how you can best write software that interacts with it efficiently and effectively. Pro .NET Memory Management is your comprehensive

guide to writing better software by understanding and working with memory management in .NET. Thoroughly vetted by the .NET Team at Microsoft,

this book contains 25 valuable troubleshooting scenarios designed to help diagnose challenging memory problems. Readers will also benefit from a multitude of .NET

memory management "rules" to live by that introduce methods for writing memory-aware code and the means for avoiding common, destructive pitfalls. What

You'll Learn Understand the theoretical underpinnings of automatic memory management Take a deep dive into every aspect of .NET memory

Performance Measu management, including detailed coverage of garbage collection (GC) implementation, that would otherwise take years of experience to acquire Get practical

advice on how this knowledge can be applied in real-world software development Use practical knowledge of tools related to .NET memory management to

diagnose various memory-related issues Explore various aspects of advanced memory management, including use of Span and Memory types Who This Book Is

For .NET developers, solution architects, and performance engineers The Art of Company Valuation and Financial Statement Analysis: A value investor's guide

Performance Measu with real-life case studies covers all quantitative and qualitative approaches needed to evaluate the past and forecast the future performance of a

company in a practical manner. Is a given stock over or undervalued? How can the future prospects of a company be evaluated? How can complex valuation

methods be applied in practice? The Art of Company Valuation and Financial Statement Analysis answers each of these questions and conveys the principles of

company valuation in an accessible and applicable way. Valuation theory is linked to the practice of investing through financial statement analysis and

interpretation, analysis of business models, company valuation, stock analysis, portfolio management and value Investing. The book's unique approach is to

illustrate each valuation method with a case study of actual company performance. More than 100 real case studies are included, supplementing the sound theoretical

framework and offering potential investors a methodology that can easily be applied in practice. Written for asset managers, investment professionals and private

**investors who require a
reliable, current and
comprehensive guide to
company valuation, the
book aims to encourage
readers to think like an
entrepreneur, rather than**

a speculator, when it comes to investing in the stock markets. It is an approach that has led many to long term success and consistent returns that regularly

outperform more opportunistic approaches to investment. General directors who have all made their marks in the field of librarianship report from

a variety of perspectives, including economic, social, educational, cultural developmental, and political. This information could increase the

understanding of the managerial decisions, and other factors that affect the decisions and determine the library's overall policy and operations.

**For Better Code,
Performance, and
Scalability
Educating the Net
Generation
A Guide to Benchmarking
Advanced Techniques for**

**C# Developers Using the
.NET 4 Framework
Crafting Elegant
Functional Code for .NET
and .NET Core
The Green Book
Stylish F#**

Pro HTML5 and CSS3 Design Patterns is a reference book and a cookbook on how to style web pages using CSS3 and HTML5. It contains 350 ready-to-use patterns (CSS3 and HTML5 code snippets)

that you can copy and paste into your code. Each pattern can be combined with other patterns to create an unlimited number of solutions, and each pattern works reliably in all major

browsers without the need for browser hacks. The book is completely up-to-date with code, best practices, and browser compatibilities for HTML5 and CSS3—enabling you to dive in and make use

*of these new technologies in
production environments.
Pro HTML5 and CSS3 Design
Patterns is so much more
than just a cookbook,
though! It systematically
covers every usable feature*

of CSS3 and combines these features with HTML5 to create reusable patterns. Each pattern has an intuitive name to make it easy to find, remember, and refer to. Accessibility and best

*practices are carefully
engineered into each design
pattern, example, and source
code. The book's layout, with
a pattern's example on the
left page and its explanation
on the right, makes it easy*

to find a pattern and study it without having to flip between pages. The book is also readable from cover to cover, with topics building carefully upon previous topics. Pro HTML5 and CSS3

*Design Patterns book
unleashes your productivity
and creativity in web design
and development. Instead of
hacking your way toward a
solution, you'll learn how to
predictably create successful*

designs every time by reusing and combining modular design patterns. "Interest in e-government, both in industry and in academies, has grown rapidly over the past decade.

This book provides helpful examples from practitioners and managers involving real-life applications; academics and researchers contribute theoretical insights"--Provided by

publisher.
Foreword by Oliver
Schabenberger, PhD
Executive Vice President,
Chief Operating Officer and
Chief Technology OfficerSAS
Dive into deep learning!

Machine learning and deep learning are ubiquitous in our homes and workplaces-from machine translation to image recognition and predictive analytics to autonomous driving. Deep

*learning holds the promise
of improving many everyday
tasks in a variety of
disciplines. Much deep
learning literature explains
the mechanics of deep
learning with the goal of*

implementing cognitive applications fueled by Big Data. This book is different. Written by an expert in high-performance analytics, Deep Learning for Numerical Applications with SAS®

introduces a new field: Deep Learning for Numerical Applications (DL4NA). Contrary to deep learning, the primary goal of DL4NA is not to learn from data but to dramatically improve the

performance of numerical applications by training deep neural networks. Deep Learning for Numerical Applications with SAS® presents deep learning concepts in SAS along with

step-by-step techniques that allow you to easily reproduce the examples on your high-performance analytics systems. It also discusses the latest hardware innovations that can power

your SAS programs: from many-core CPUs to GPUs to FPGAs to ASICs. This book assumes the reader has no prior knowledge of high-performance computing, machine learning, or deep

Performance Measu learning. It is intended for SAS developers who want to develop and run the fastest analytics. In addition to discovering the latest trends in hybrid architectures with GPUs and FPGAS, readers

will learn how to Use deep learning in SAS Speed up their analytics using deep learning Easily write highly parallel programs using the many task computing paradigms For sample

material and supporting resources, please see the author's page. This book is part of the SAS Press program.
Graphs are useful data structures in complex real-

life applications such as modeling physical systems, learning molecular fingerprints, controlling traffic networks, and recommending friends in social networks. However,

*these tasks require dealing
with non-Euclidean graph
data that contains rich
relational information
between elements and
cannot be well handled by
traditional deep learning*

*models (e.g., convolutional
neural networks (CNNs) or
recurrent neural networks
(RNNs)). Nodes in graphs
usually contain useful
feature information that
cannot be well addressed in*

most unsupervised representation learning methods (e.g., network embedding methods). Graph neural networks (GNNs) are proposed to combine the feature information and the

graph structure to learn better representations on graphs via feature propagation and aggregation. Due to its convincing performance and high interpretability, GNN

has recently become a widely applied graph analysis tool. This book provides a comprehensive introduction to the basic concepts, models, and applications of graph neural networks. It

starts with the introduction of the vanilla GNN model. Then several variants of the vanilla model are introduced such as graph convolutional networks, graph recurrent networks, graph attention

networks, graph residual networks, and several general frameworks. Variants for different graph types and advanced training methods are also included. As for the applications of

*GNNs, the book categorizes
them into structural, non-
structural, and other
scenarios, and then it
introduces several typical
models on solving these
tasks. Finally, the closing*

*Performance Measu chapters provide GNN open
resources and the outlook of
several future directions.
Pro HTML5 and CSS3 Design
Patterns
Protocols for Working with
the Australian Indigenous*

*Visual Arts and Craft Sector
Pro .NET Memory
Management
Principles of Management
Preventing Suicide
Manager Selection
Pro .NET Benchmarking*

*Based on the popular
Developing Leadership
Talent program offered by
the acclaimed Center for
Creative Leadership, this
important resource offers
a nuts-and-bolts framework*

for putting in place a leadership development system that will attract and retain the best and brightest talent. Step by step, the authors explain how alignment with

strategic goals and organizational purpose and effective developmental experiences are the backbone of a successful leadership program. An authoritative and useful

book, Developing Leadership Talent is an essential tool for any leadership program. Principles of Management is designed to meet the scope and sequence

requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and

controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource

management and strategic management, as well behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an

additional benefit of this
text is that specialists
in a variety of areas have
authored individual
chapters.
Motivate, engage, and
achieve lasting success

with more effective performance management Managing Business Performance offers a unique blueprint for achieving organisational excellence through

improved productivity, efficiency, engagement, and morale. With a unique approach that acknowledges the human aspect of performance management, this book combines

technical and social know-how to give you a solid framework for designing, configuring, and managing performance improvement initiatives with sustainable results.

*You'll find practical
models, techniques, and
tools that take you beyond
management theory into
advice that you can use,
with clear explanations
that steer you toward the*

*customisations that would
best suit your
organisation.
International case studies
illustrate these ideas in
action, providing an
intimate look at how*

cultural differences impact management strategies, and insight into how they can be managed. Organisational performance tools and techniques are well

established, but many organisations will never realise their full benefit. This book helps you get more out of your performance strategy by showing you how the

organisation's complex social nature impacts real-world outcomes, and how it can be used to drive better performance. Blend technical and social management strategies Keep

*people motivated and
engaged See better results
with more staying power
Get the very best from
your organisation
Performance management
strategies that fail to*

*take people into account
are counterproductive.
There's no better way to
de-motivate, demoralise,
and disengage the people
upon whom the organisation
depends. Sustainable*

success requires a blended approach that utilizes the most effective science within the art of people management, and Managing Business Performance gives you a solid foundation for

*better business
performance strategy.
This publication sets out
protocols to guide non-
indigenous people in their
relationships with
indigenous artists and*

communities, and to assist indigenous artists in defining their rights.
I.I.I. Insurance Fact Book
Leadership, Management, Future of Libraries
Benchmarks and Investment

Management
Real-Time Rendering
PM Benchmark Kit
Global E-Government:
Theory, Applications and
Benchmarking
Reusable Approaches in C#

*and F# for Object-Oriented
Software Design
Latest Edition: 3D Printing
and Additive Manufacturing:
Principles and Applications
(with Companion Media
Pack). Fourth edition of*

Rapid Prototyping. Rapid Prototyping (RP) has revolutionized the landscape of how prototypes and products are made and small batch manufacturing carried out. This book gives a

comprehensive coverage of RP and rapid tooling processes, data formats and applications. A CD-ROM, included in the book, presents RP and its principles in an interactive

way to augment the learning experience. Special features: Most comprehensive coverage of more than 30 RP SystemsUnderstanding of RP through applicationsIn-depth revelation of the basic

principles behind major RP techniquesDiscussion of important issues such as STL file problems of RP partsInteractive CD-ROM to demonstrate the major RP techniquesRP company

background information and contact addresses Implement design patterns in .NET using the latest versions of the C# and F# languages. This book provides a comprehensive

*overview of the field of
design patterns as they are
used in today's developer
toolbox. Using the C#
programming language,
Design Patterns in .NET
explores the classic design*

pattern implementation and discusses the applicability and relevance of specific language features for the purpose of implementing patterns. You will learn by example, reviewing

scenarios where patterns are applicable. MVP and patterns expert Dmitri Nesteruk demonstrates possible implementations of patterns, discusses alternatives and pattern

inter-relationships, and illustrates the way that a dedicated refactoring tool (ReSharper) can be used to implement design patterns with ease. What You'll Learn Know the latest pattern

implementations available in C# and F# Refer to researched and proven variations of patterns Study complete, self-contained examples including many that cover advanced

scenarios Use the latest implementations of C# and Visual Studio/ReSharper Who This Book Is For Developers who have some experience in the C# language and want to

expand their comprehension of the art of programming by leveraging design approaches to solving modern problems Maximizing the performance of your algorithms and

applications is extremely important and can give you a competitive advantage, a lower cost of ownership, and happier users. Pro .NET Performance explains the internals of Windows, the

CLR, and the physical hardware that affect the performance of your applications, and gives you the knowledge and tools to measure how your code performs in isolation from

*external factors. The book is
full of C# code samples and
tips to help you squeeze
every bit of juice from your
application—lower memory
utilization, consistent CPU
usage, and fewer I/O*

operations across the network and disk. Pro .NET Performance will change the way you think about .NET application development. Guides you through performance measurement

with a variety of profilers and other tools Explains how OS and CLR internals affect your application's performance in unexpected ways Provides you with tips and real-life case studies for

improving application performance
Graph-structured data is ubiquitous throughout the natural and social sciences, from telecommunication networks to quantum

chemistry. Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn, reason, and generalize from this kind of

data. Recent years have seen a surge in research on graph representation learning, including techniques for deep graph embeddings, generalizations of convolutional neural

networks to graph-structured data, and neural message-passing approaches inspired by belief propagation. These advances in graph representation learning have

*led to new state-of-the-art
results in numerous
domains, including chemical
synthesis, 3D vision,
recommender systems,
question answering, and
social network analysis. This*

book provides a synthesis and overview of graph representation learning. It begins with a discussion of the goals of graph representation learning as well as key methodological

*foundations in graph theory
and network analysis.
Following this, the book
introduces and reviews
methods for learning node
embeddings, including
random-walk-based methods*

and applications to knowledge graphs. It then provides a technical synthesis and introduction to the highly successful graph neural network (GNN) formalism, which has

become a dominant and fast-growing paradigm for deep learning with graph data. The book concludes with a synthesis of recent advancements in deep generative models for

*graphs—a nascent but
quickly growing subset of
graph representation
learning.
The Science and The Art
Asynchronous, Parallel, and
Multithreaded Programming*

Concurrency in C#
Cookbook
Introduction to Graph
Neural Networks
A Global Imperative
Design Patterns in .NET
The Urban Rail Development

Handbook

Cultural vitality is an essential to a healthy
and sustainable society as social equity,
envrinmental responsibilty and economic
viability. In order for public planning to be
more effective, its methodology should
include an integrated framework of
cultural evaluation similar to social,

environmental and economic assessment. The Complete Guide to Optimizing Systems Performance Written by the winner of the 2013 LISA Award for Outstanding Achievement in System Administration Large-scale enterprise, cloud, and virtualized computing systems have introduced serious performance

challenges. Now, internationally renowned
performance expert Brendan Gregg has
brought together proven methodologies,
tools, and metrics for analyzing and tuning
even the most complex environments.
Systems Performance: Enterprise and the
Cloud focuses on Linux® and Unix®
performance, while illuminating

performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform, and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants running Linux-

based Ubuntu® , Fedora® , CentOS, and
the illumos-based Joyent® SmartOS™
and OmniTI OmniOS® . He
systematically covers modern systems
performance, including the
"traditional" analysis of CPUs,
memory, disks, and networks, and new
areas including cloud computing and

dynamic tracing. This book also helps you identify and fix the "unknown unknowns" of complex performance: bottlenecks that emerge from elements and interactions you were not aware of. The text concludes with a detailed case study, showing how a real cloud customer issue was analyzed from start to finish.

Coverage includes •Modern
performance analysis and tuning:
terminology, concepts, models, methods,
and techniques •Dynamic tracing
techniques and tools, including examples
of DTrace, SystemTap, and perf •
Kernel internals: uncovering what the OS
is doing •Using system observability

tools, interfaces, and frameworks • Understanding and monitoring application performance • Optimizing CPUs: processors, cores, hardware threads, caches, interconnects, and kernel scheduling • Memory optimization: virtual memory, paging, swapping, memory architectures, busses, address

spaces, and allocators •File system I/O, including caching •Storage devices/controllers, disk I/O workloads, RAID, and kernel I/O •Network-related performance issues: protocols, sockets, interfaces, and physical connections •Performance implications of OS and hardware-based virtualization,

and new issues encountered with cloud computing •Benchmarking: getting accurate results and avoiding common mistakes This guide is indispensable for anyone who operates enterprise or cloud environments: system, network, database, and web admins; developers; and other professionals. For students and others new

to optimization, it also provides exercises reflecting Gregg's extensive instructional experience.

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 coronavirus disease (COVID-19) crisis. With growing demands for increased operational efficiency and process improvement in organizations of all sizes, more and more companies are turning to benchmarking as a means of setting goals

and measuring performance against the products, services and practices of other organizations that are recognized as leaders. The Benchmarking Book is an indispensable guide to process improvement through benchmarking, providing managers, practitioners and consultants with all the information

needed to carry out effective benchmarking studies. Covering everything from essential theory to important considerations such as project management and legal issues, The Benchmarking Book is the ideal step-by-step guide to assessing and improving your company's processes and performance

through benchmarking
Enterprise and the Cloud
Systems Performance
Funds of Knowledge
Pro ASP.NET 4 CMS
The Benchmarking Book
The Art of Company Valuation and
Financial Statement Analysis

Theorizing Practices in Households, Communities, and Classrooms

This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically

robust approach to the appraisal and
evaluation of public service projects
before significant funds are committed. It
is the first edition to have been aided by a
consultation process in order to ensure the
guidance is clearer and more closely
tailored to suit the needs of users.
This publication "sheds light on the

phenomenon of research in the visual arts. In 'artistic research,' practical acts (the making) and theoretical reflection (the thinking) go hand in hand, in a manner similar to creating and thinking being inextricably linked with artistic practice. -- This volume has been written from the perspective of art as practice. The majority

of the authors are artists, while several artists provided visual contributions that elucidate the phenomenon of research in art. There are also contributions form theoreticians, who analyse how artistic research works (and how it is productive)"--P.[3] of cover.

To be a successful ASP.NET 4 developer,

you need to know how to apply the vast array of new functionality available in the latest release of the .NET 4 Framework and Visual Studio 2010. This book will immerse you in a variety of advanced topics, including architecting different application data tiers, memory caching paradigms, data mining, and search engine

optimization. Working through step-by-step exercises using P/LINQ, DLR, MEF, MVC, IronPython, Axum, and Ajax, you will learn a variety of approaches to building each of the key application tiers common to all web solutions. Using a proven technique of illustrating advanced concepts with functional solutions, all

topics in the book are modeled on a fully operational content management system (CMS), built from the ground up. This ensures that you'll be introduced to real-world examples that demonstrate the full functionality of the .NET 4 Framework for ASP.NET, and that you'll be able to apply your new skills to any web development

Written by Dr. Robert Camp, universally
regarded as the founding father of the
benchmark process, this bestseller is quite
simply the definitive reference on the
topic. Camp guides readers through the
historic ten-step benchmarking process
that he developed while at Xerox. This

process is credited with reviving that company when it was floundering in 1979. Camp presents other examples of the process, including its dramatic application to L.L. Bean. He uses these examples to show managers how to relate benchmarking to their own circumstances and then provides them with expert

strategy and tips so that they can efficiently and easily launch their own quest for best performance.

A Corporate Accounting and Reporting Standard

Benchmarking

Developing Leadership Talent

Global Innovation Index 2020

Culture's Essential Role in Public Planning
Who Will Finance Innovation?
The Artist as Researcher
Why just get by in F#
when you can program in
style! This book goes
beyond syntax and into

design. It provides F#
developers with best
practices, guidance, and
advice to write
beautiful, maintainable,
and correct code.
Stylish F# covers every

design decision that a
developer makes in
constructing F#
programs, helping you
make the most educated
and valuable design
choices at every stage

of code development. You
will learn about the
design of types and
function signatures, the
benefits of
immutability, and the
uses of partial function

application. You will understand best practices for writing APIs to be used by F#, C#, and other languages. Each carefully vetted design choice is

supported with compelling examples, illustrations, and rationales. What You'll Learn Know why, when, and how to code in immutable style Use

collection functions, piping, and function composition to build working software quickly Be aware of the techniques available to bring error handling

into the mainstream of program logic Optimize F# code for maximum performance Identify and implement opportunities to use function injection to improve

program design Appreciate the methods available to handle unknown data values Understand asynchronous and parallel programming in F#, and how it

differs from C#

asynchronous programming Who This Book Is For Any developer who writes F# code and wants to write it better

The concept of "funds of

knowledge" is based on a simple premise: people are competent and have knowledge, and their life experiences have given them that knowledge. The claim in

this book is that first-hand research experiences with families allow one to document this competence and knowledge, and that such engagement provides

many possibilities for
positive pedagogical
actions. Drawing from
both Vygotskian and neo-
sociocultural
perspectives in
designing a methodology

that views the everyday
practices of language
and action as
constructing knowledge,
the funds of knowledge
approach facilitates a
systematic and powerful

way to represent communities in terms of the resources they possess and how to harness them for classroom teaching. This book accomplishes three

objectives: It gives readers the basic methodology and techniques followed in the contributors' funds of knowledge research; it extends the

boundaries of what these researchers have done; and it explores the applications to classroom practice that can result from teachers knowing the communities

in which they work. In a time when national educational discourses focus on system reform and wholesale replicability across school sites, this book

offers a counter-perspective stating that instruction must be linked to students' lives, and that details of effective pedagogy should be linked to

local histories and community contexts. This approach should not be confused with parent participation programs, although that is often a fortuitous consequence

of the work described.
It is also not an
attempt to teach parents
"how to do school"
although that could
certainly be an outcome
if the parents so

desired. Instead, the funds of knowledge approach attempts to accomplish something that may be even more challenging: to alter the perceptions of

working-class or poor
communities by viewing
their households
primarily in terms of
their strengths and
resources, their
defining pedagogical

characteristics. Funds of Knowledge: Theorizing Practices in Households, Communities, and Classrooms is a critically important volume for all teachers

and teachers-to-be, and
for researchers and
graduate students of
language, culture, and
education.
The GHG Protocol
Corporate Accounting and

Reporting Standard helps companies and other organizations to identify, calculate, and report GHG emissions. It is designed to set the standard for accurate,

complete, consistent, relevant and transparent accounting and reporting of GHG emissions. If you're one of the many developers uncertain about

concurrent and
multithreaded
development, this
practical cookbook will
change your mind. With
more than 75 code-rich
recipes, author Stephen

Cleary demonstrates
parallel processing and
asynchronous programming
techniques, using
libraries and language
features in .NET 4.5 and
C# 5.O. Concurrency is

becoming more common in
responsive and scalable
application development,
but it's been extremely
difficult to code. The
detailed solutions in
this cookbook show you

how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about

how and why the solution
works, you get recipes
for using: async and
await for asynchronous
operations Parallel
programming with the
Task Parallel Library

The TPL Dataflow library
for creating dataflow
pipelines Capabilities
that Reactive Extensions
build on top of LINQ
Unit testing with
concurrent code Interop

scenarios for combining concurrent approaches Immutable, threadsafe, and producer/consumer collections Cancellation support in your concurrent code

Asynchronous-friendly
Object-Oriented
Programming Thread
synchronization for
accessing data
Vol. 1-
Optimize Your C#

Applications
Appraisal and Evaluation
in Central Government :
Treasury Guidance
Principles and
Applications (with
Companion CD-ROM) , 2nd

Edition
Deep Learning for
Numerical Applications
with SAS®
The Greenhouse Gas
Protocol
Graph Representation

"Suicides are preventable. Even so, every 40 seconds a person dies by suicide somewhere in the world and many more attempt suicide. Suicides occur in all regions of the world and throughout the lifespan. Notably, among young people 15-29 years of

age, suicide is the second leading cause of death globally. Suicide impacts on the most vulnerable of the world's populations and is highly prevalent in already marginalized and discriminated groups of society. It is not just a serious public health problem in developed countries; in

fact, most suicides occur in low- and middle-income countries where resources and services, if they do exist, are often scarce and limited for early identification, treatment and support of people in need. These striking facts and the lack of implemented timely interventions

make suicide a global public health problem that needs to be tackled imperatively. This report is the first WHO publication of its kind and brings together what is known in a convenient form so that immediate actions can be taken. The report aims to increase the awareness of the public health

significance of suicide and suicide attempts and to make suicide prevention a higher priority on the global public health agenda. It aims to encourage and support countries to develop or strengthen comprehensive suicide prevention strategies in a multisectoral public health approach.

For a national suicide prevention strategy, it is essential that governments assume their role of leadership, as they can bring together a multitude of stakeholders who may not otherwise collaborate. Governments are also in a unique position to develop and strengthen

surveillance and to provide and disseminate data that are necessary to inform action. This report proposes practical guidance on strategic actions that governments can take on the basis of their resources and existing suicide prevention activities. In particular, there are evidence-based

and low-cost interventions that are effective, even in resource-poor settings. This publication would not have been possible without the significant contributions of experts and partners from all over the world. We would like to thank them for their important work and support. The

report is intended to be a resource that will allow policy-makers and other stakeholders to make suicide prevention an imperative. Only then can countries develop a timely and effective national response and, thus, lift the burden of suffering caused by suicide and suicide attempts from

individuals, families, communities and society as a whole."--Preface, page 03.

Cities across the globe are looking to develop affordable, environmentally friendly, and socially responsible transportation solutions that can meet the accessibility needs of expanding

metropolitan populations and support future economic and urban development. When appropriately planned and properly implemented as part of a larger public transportation network, urban rail systems can provide rapid mobility and vital access to city centers from surrounding

districts. High-performing urban rail services, when carefully approached as development projects, can help enhance quality of life by giving citizens access to employment opportunities, essential services, urban amenities, and neighboring communities. The purpose of this

Handbook is to synthesize and disseminate knowledge to inform the planning, implementation, and operations of urban rail projects with a view towards: -- Emphasizing the need for early studies and project planning; -- Making projects more sustainable (economically, socially, and

environmentally); -- Improving socioeconomic returns and access to opportunities for users; -- Maximizing the value of private participation, where appropriate; and -- Building capacity within project implementing and managing institutions This Handbook provides experiential advice

to tackle the technical, institutional, and financial challenges faced by decision makers considering urban rail projects. It brings together the expertise of World Bank staff and the input of numerous specialists to synthesize international 'good practices' and recommendations that

are independent of commercial, financial political, or other interests. The material presented is intended as an honest-broker guide to maximize the impact and manage the challenges of urban rail systems in cities in both developed and developing countries. Rather than identify a single approach,

this Handbook acknowledges the complexities and context necessary when approaching an urban rail development by helping to prepare decision makers to ask the right questions, consider the key issues, perform the necessary studies, apply adequate tools, and learn from

international good practice all at the right time in the project development process.

Thoroughly revised, this third edition focuses on modern techniques used to generate synthetic three-dimensional images in a fraction of a second. With the advent of programmable shaders,

a wide variety of new algorithms have arisen and evolved over the past few years. This edition discusses current, practical rendering methods used in games and other applications. It also presents a solid theoretical framework and relevant mathematics for the field of interactive computer graphics, all in

an approachable style. The authors have made the figures used in the book available for download for fair use.:Download Figures. Reviews Rendering has been a required reference for professional graphics practitioners for nearly a decade. This latest edition is as relevant as ever,

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