

Access Free Rapid Viz A New
Method For The Rapid
Visualization Of Ideas By Kurt
Rapid Viz A New

***Method For The Rapid
Visualization Of Ideas
By Kurt Hanks***

Rapid VizA New Method for the
Rapid Visualization of
IdeasWilliam Kaufmann
IncorporatedThe Rapid Vis
ToolkitAn Intriguing Collection of
Powerful Drawing Tools for the
Rapid Visualization of IdeasCrisp
Pub Incorporated

Are you possessed by the urge
to invent, design, and make
something that others enjoy, but
don't know how to plug into the

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Maker movement? In this book, you'll follow author David Lang's headfirst dive into the Maker world and how he grew to be a successful entrepreneur. You'll discover how to navigate this new community, and find the best resources for learning the tools and skills you need to be a dynamic maker in your own right. Lang reveals how he became a pro maker after losing his job, and how the experience helped him start OpenROV—a DIY community and product line focused on open source undersea exploration. It all happened once he became an active member of the Maker

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culture. Ready to take the plunge into the next Industrial

Revolution? This guide provides a clear and inspiring roadmap.

Take an eye-opening journey from unskilled observer to

engaged maker-entrepreneur

Enter the Maker community to

connect with experts and pick up

new skills Use a template for

building a maker-based

entrepreneurial lifestyle Learn

from the organizer of the first-

ever Maker Startup Weekend Be

prepared for exciting careers of

the future

Drug repurposing or drug

repositioning is a new approach

to presenting new indications for

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common commercial and clinically approved existing drugs. For example, chloroquine, an old antimalarial drug, showed promising results for treating COVID-19, interfering with MDR in several types of cancer, and chemosensitizing human leukemic cells. This book focuses on the hypothesis, risk/benefits, and economic impacts of drug repurposing on drug discovery in dermatology, infectious diseases, neurological disorders, cancer, and orphan diseases. It brings together up-to-date research to provide readers with an informative, illustrative, and easy-to-read book useful for

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students, clinicians, and the pharmaceutical industry.

Author Scott Murray teaches you the fundamental concepts and methods of D3, a JavaScript library that lets you express data visually in a web browser

Waste-to-Energy Approaches

Towards Zero Waste

Make It Stick

Python and HDF5

Fundamentals of Graphic

Language

Fundamentals of Forensic DNA

Typing

Electrochemical Methods for

Neuroscience

China's Master Plan to Destroy

America

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**Handbook of Modern
Coating Technologies:
Application and
Development reviews
recent applications and
developments of modern
coating technologies.
The topics in this
volume consist of role
of antibacterial
coatings in the
development of
biomaterials, insights
of technologies for self-
healing organic
coatings, sensor
applications,
application of carbon
nanotubes-based coating**

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**in the field of art
conservation, oxide-
based self-cleaning and
corrosion-protective
coatings, protective
coatings for wood,
applications of optical
coatings on spectral
selective structures,
application of natural
antimicrobial coating
for controlling
foodborne pathogens on
meat and fresh produce,
efficacy of
antimicrobial coating in
reducing pathogens on
meat, composite
membrane: fabrication,**

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**characterization, and
applications,
development of
nanostructured HVOF
coatings on high
strength steel
components for turbine
blades, nanoscale
multilayered composite
coating, applications of
sol-gel coatings,
application of graphene
in protective coating
industry, application of
coatings in outdoor high-
voltage installations,
defects and doping
effects in thin films of
transparent and**

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**conductive oxides, and
functional coatings for
lab-on-a-chip systems
based on phospholipid
polymers.**

NATIONAL BESTSELLER •

**For anyone who wants to
learn a foreign
language, this is the
method that will finally
make the words stick. "A
brilliant and thoroughly
modern guide to learning
new languages."—Gary
Marcus, cognitive
psychologist and author
of the New York Times
bestseller Guitar Zero
At thirty years old,**

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Gabriel Wyner speaks six languages fluently. He didn't learn them in school—who does? Rather, he learned them in the past few years, working on his own and practicing on the subway, using simple techniques and free online resources—and here he wants to show others what he's discovered. Starting with pronunciation, you'll learn how to rewire your ears and turn foreign sounds into familiar sounds. You'll

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retrain your tongue to produce those sounds accurately, using tricks from opera singers and actors. Next, you'll begin to tackle words, and connect sounds and spellings to imagery rather than translations, which will enable you to think in a foreign language. And with the help of sophisticated spaced-repetition techniques, you'll be able to memorize hundreds of words a month in minutes every day. This is brain

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**hacking at its most
exciting, taking what we
know about neuroscience
and linguistics and
using it to create the
most efficient and
enjoyable way to learn a
foreign language in the
spare minutes of your
day.**

**"Why do some people
succeed at change while
others fail? It's the
way they think! Liminal
thinking is a way to
create change by
understanding, shaping,
and reframing beliefs.
What beliefs are**

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**stopping you right now?
You have a choice. You
can create the world you
want to live in, or live
in a world created by
others. If you are ready
to start making changes,
read this book."**

**Since the first implant
of a carbon
microelectrode in a rat
35 years ago, there have
been substantial
advances in the
sensitivity, selectivity
and temporal resolution
of electrochemical
techniques. Today, these
methods provide**

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neurochemical
information that is not
accessible by other
means. The growing
recognition of the
versatility of
electrochemical
techniques indicates a
need for a greater
understanding of the
scientific foundation
and use of these
powerful tools.
**Electrochemical Methods
for Neuroscience**
provides an updated
summary of the current,
albeit evolving, state
of the art and lays the

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Hanks

**scientific foundation
for incorporating
electrochemical
techniques into on-going
or newly emerging
research programs in the
neuroscience
disciplines. With
contributions from
pioneers in the field,
the text outlines the
applications and
benefits of a wide range
of electrochemical
techniques. It explores
the methodology behind
the acquisition of
neurochemical and
neurobiological data**

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through continuous
amperometry, fast scan
cyclic voltammetry, high-
speed chronoamperometry,
ion-selective
microelectrodes, enzyme
based microelectrodes,
and in vivo voltammetry
with telemetry. The text
also introduces emerging
concepts in the field
such as the correlation
of electrochemical
recordings with
information obtained
from patch clamp,
electrophysiological,
and behavioral
techniques. By

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presenting up-to-date
information on the
growing collection of
electrochemical methods,
microsensors, and
research techniques,
Electrochemical Methods
for Neuroscience assists
seasoned researchers and
newcomers to the field
in making sound
decisions about adopting
the most appropriate of
these tools for their
future research
objectives.
Interactive Data
Visualization for the
Web

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**Practical Web Inclusion
and Accessibility**

**Reimagining Work in an
Age of Communication
Overload**

**An Introduction to
Designing with D3**

**Essentials of
Computational Chemistry
Electrochemical Methods:
Fundamentals and
Applications, 2nd
Edition**

Drug Repurposing

Do you feel like your thoughts, ideas,
and plans are being suffocated by a
constant onslaught of information?
Do you want to get those great ideas
out of your head, onto the

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whiteboard and into everyone else's heads, but find it hard to start? No matter what level of sketching you think you have, Presto Sketching will help you lift your game in visual thinking and visual communication. In this practical workbook, Ben Crothers provides loads of tips, templates, and exercises that help you develop your visual vocabulary and sketching skills to clearly express and communicate your ideas. Learn techniques like product sketching, storyboarding, journey mapping, and conceptual illustration. Dive into how to use a visual metaphor (with a library of 101 visual metaphors), as well as tips for capturing and sharing your sketches digitally, and developing

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your own style. Designers, product managers, trainers, and entrepreneurs will learn better ways to explore problems, explain concepts, and come up with well-defined ideas - and have fun doing it. This book explains the basic sketching techniques and decisions more in depth and provides much more step-by-step example drawings, which makes it even more suitable for students and professionals who want to become better sketchers. Sketching the Basics can be seen as the prequel to Sketching as it is more targeted at the novice designer. The Basics explains the essential techniques and effects more in detail, taking the reader by the hand and guiding him step by step through all

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the various aspects of drawing that novice designers come up against. Sketching the Basics starts with the white sheet of paper or the empty screen and explains the rudiments of learning to draw both clearly and comprehensively, using step by step illustrations, examples and strategies. You will learn to use and master the different techniques and also how to apply sketches in the design process. Internationally leading Designers from various cultures around the world contributed Designer Showcases to illustrate the sketching theory. They contributed series of sketches that reflect the process of the design, from thumbnail to final drawing. Drawings that have proven to be

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important in the decision-making. The authors believe in active observation and participation by the student. During the drawing process there are many moments when choices alter the outcome. Being aware of those moments and the variety of choices and opportunities makes your attitude more flexible and less rigid. Sketching the Basics helps you to sketch with an open mind. And an open mind is key to a good design process.

Detailed summary and analysis of
The Power of Habit.

This book is striking graphic evidence that good design is simply finding the best solution to a problem.

Applications and Development

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A New Method for the Rapid
Visualization of Ideas
Visualization, Modeling, and
Graphics for Engineering Design
Strengthening Forensic Science in
the United States
Handbook of Modern Coating
Technologies
Designing Data Visualizations
Design Yourself!

***Waste-to-Energy
Approaches Towards Zero
Waste: Interdisciplinary
Methods of Controlling
Waste provides a
comprehensive overview
of the key technologies
and approaches to
achieve zero waste from***

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energy. The book emphasizes the importance of an integrated approach to waste-to-energy using fundamental concepts and principles, and presents key methods, their applications, and perspectives on future development. The book provides readers with the tools to make key decisions on waste-to-energy projects from zero-waste principles, while incorporating sustainability and life cycle assessments from

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***financial and
environmental
perspectives. Waste-to-
Energy Approaches
Towards Zero Waste:
Interdisciplinary Methods
of Controlling Waste
offers practical guidance
on achieving energy with
zero waste ideal for
researchers and graduate
students involved in
waste-to-energy and
renewable energy, waste
remediation, and
sustainability. Provides
an integrated approach
for waste-to-energy using
zero waste concepts***

Offers decision-making guidance on selecting the most appropriate approach for each project Presents the sustainability and life cycle assessment of WTE technologies on financial and environmental grounds Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and

national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new

government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

Strengthening Forensic Science in the United

States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law

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***enforcement agencies,
criminal prosecutors and
attorneys, and forensic
science educators.***

***This is an intriguing
collection of powerful
drawing tools for the
rapid visualization of
ideas in a kit originally
designed for designers
and architects.***

Illustrations.

***This second edition
laboratory manual was
written to accompany
Food Analysis, Fourth
Edition, ISBN
978-1-4419-1477-4, by
the same author. The 21***

laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure,

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***data and calculations,
questions, and
references. This
laboratory manual is ideal
for the laboratory portion
of undergraduate courses
in food analysis.***

Presto Sketching

***Create the Change You
Want by Changing the
Way You Think***

Unrestricted Warfare

Monte Carlo Particle

Transport Methods

Rapid Visual Screening of

Buildings for Potential

Seismic Hazards:

Supporting

Documentation

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Fluent Forever
Hanks

Theories and Models

Discover BIM: A better way to build better buildings
Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition

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provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include:
Information on the ways in which professionals should use BIM to gain maximum value
New topics such as collaborative working, national and major construction clients, BIM standards and guides
A discussion on how various professional roles have expanded through the

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widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital

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Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.

The web has to be inclusive. One in five people living in the UK have a disability. From Microsoft's "inclusive

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design" movement - creating adaptive controllers for users with a range of disabilities - to Beyoncé's site being sued for failure to be accessible, the importance of considering access needs is gaining mainstream attention.

Recognizing and catering for a range of disabilities in our online platforms is key to achieving a truly inclusive web. You'll be guided through a broad range of access needs, the barriers users often face, and provided practical advice on how your sites can help rather than hinder.

Going beyond advice tailored solely for developers, this

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book offers potential improvements for designers, developers, user experience professionals, QA and testers, so that everyone involved in building a website can engage with the concepts without the need to understand how to code. Learn about the very latest technology - such as natural language processing and smart home tech - and explore its application accessibly. This book comes complete with practical examples you can use in your own sites and, for the first time in any web accessibility book, access needs experienced by those with mental health disorders

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and cognitive impairments are comprehensively covered.

Applicable to both new projects and those maintaining existing sites and looking for achievable improvements on them, Practical Web Inclusion and Accessibility gives you all the information you need to ensure that your sites are truly accessible for the modern, inclusive web. What You Will Learn Understand the vast range of disabilities that have online access needs Apply the practical steps required to cater for those needs Use new technology to open up exciting avenues for the sites you create and

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*maintain Approach
accessibility from a full
spectrum of online
disciplines Start thinking
about users with specific
disabilities and how it
impacts your work Who This
Book Is For Anyone who wants
to have a greater
understanding of the
inclusive web and
considerations that should
be made. You do not need to
have coding knowledge.
Three years before the
September 11 bombing of the
World Trade Center-a Chinese
military manual called
Unrestricted Warfare touted
such an attack-suggesting it
would be difficult for the
U.S. military to cope with.*

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The events of September 11 were not a random act perpetrated by independent agents. The doctrine of total war outlined in *Unrestricted Warfare* clearly demonstrates that the People's Republic of China is preparing to confront the United States and our allies by conducting "asymmetrical" or multidimensional attack on almost every aspect of our social, economic and political life.

*The Magic of Simple Drawing
for Brilliant Product*

Thinking and Design

*A Comprehensive Guide to
Access Needs*

Drawing Ideas

How to Survive and Thrive in

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the Age of Digital

*Disruption with the Flow
Framework*

*An Intriguing Collection of
Powerful Drawing Tools for
the Rapid Visualization of
Ideas*

Project to Product

*A Hand-Drawn Approach for
Better Design*

A new book for a new generation of engineering professionals, Visualization, Modeling, and Graphics for Engineering Design was written from the ground up to take a brand-new approach to graphic communication within the context of engineering design and creativity. With a blend of modern and traditional topics,

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this text recognizes how computer modeling techniques have changed the engineering design process. From this new perspective, the text is able to focus on the evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the what to explain the why of engineering graphics. Important Notice: Media content referenced within the product description or the product text may not be

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available in the ebook version.

A primer for design professionals across all disciplines that helps them create compelling and original concept designs by hand--as opposed to on the computer--in order to foster collaboration and win clients. In today's design world, technology for expressing ideas is pervasive; CAD models and renderings created with computer software provide an easy option for creating highly rendered pieces. However, the accessibility of this technology means that fewer designers know how to draw by hand, express their ideas

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spontaneously, and brainstorm effectively. In a unique board binding that mimics a sketchbook, *Drawing Ideas* provides a complete foundation in the techniques and methods for effectively communicating to an audience through clear and persuasive drawings.

Data visualization is an efficient and effective medium for communicating large amounts of information, but the design process can often seem like an unexplainable creative endeavor. This concise book aims to demystify the design process by showing you how to use a linear decision-

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making process to encode your information visually. Delve into different kinds of visualization, including infographics and visual art, and explore the influences at work in each one. Then learn how to apply these concepts to your design process. Learn data visualization classifications, including explanatory, exploratory, and hybrid. Discover how three fundamental influences—the designer, the reader, and the data—shape what you create. Learn how to describe the specific goal of your visualization and identify the supporting data. Decide the

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spatial position of your visual entities with axes Encode the various dimensions of your data with appropriate visual properties, such as shape and color See visualization best practices and suggestions for encoding various specific data types

New Trends in Removal of Heavy Metals from Industrial Wastewater covers the applicable technologies relating to the removal of heavy metals from wastewater and new and emerging trends in the field, both at the laboratory and industrial scale. Sections explore new environmentally friendly

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technologies, the principles of sustainable development, the main factors contributing to heavy metal removal from wastewater, methods and procedures, materials (especially low-cost materials originated from industrial and agricultural waste), management of wastewater containing heavy metals and wastewater valorization, recycling, environmental impact, and wastewater policies for post heavy metal removal. This book is an advanced and updated vision of existing heavy metal removal technologies with their limitations and challenges and

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their potential application to remove heavy metals/environmental pollutants through advancements in bioremediation. Finally, sections also cover new trends and advances in environmental bioremediation with recent developments in this field by an application of chemical/biochemical and environmental biotechnology. Outlines the fate and occurrence of heavy metals in Wastewater Treatment Plants (WWTPs) and potential approaches for their removal Describes the techniques currently available for

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removing heavy metals from
wastewater Discusses the
emerging technologies in
heavy metal removal Covers
biological treatments to
remove heavy metals Includes
the valorization of heavy metal
containing wastewater

A World Without Email

Handbook of Antimicrobial
Coatings

A Visual Approach

Advances in Animal Disease
Diagnosis

Learn (Just Enough) to Make
(Just About) Anything

Autodesk Inventor Professional
2022 for Designers, 22nd
Edition

Sketching the Basics

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Handbook of Antimicrobial Coatings is the first comprehensive work on the developments being made in the emerging field of antimicrobial coatings. Crucial aspects associated with coating research are presented in the form of individual chapters. Particular close attention has been given to essential aspects necessary to understand the properties of novel materials. The book introduces the reader to progress being made in the field, followed by an outline of applications in different areas. Various methods and techniques of synthesis and characterization are detailed as individual chapters. Chapters provide insight into the ongoing research, current trends

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and technical challenges in this rapidly progressing field. The covered topics were chosen so that they can be easily understood by new scholars as well as advanced learners. No book has been written on this topic thus far with so much crucial information for materials scientists, engineers and technologists. Offers the first comprehensive work on developments being made in the emerging field of antimicrobial coatings Features updates written by leading experts in the field of anti-microbial coatings Includes discussions of coatings for novel materials Provides various methods and techniques of synthesis and characterization detailed in

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individual chapters

An experiential approach to the development of new thinking skills investigates the kinds of visual images that are the primary vehicles of visual thinking, materials, and environmental conditions conducive to visual thinking, and the significance of ide
This book provides a modern and effective approach to the age-old problem of impoverished motivation. Each page is filled with ideas, concepts, methods and coordinated approach to motivation theory. This book is a tool box - the real solution comes when you effectively match and apply the ideas prescribed in the book.
New York Times bestseller! From

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New York Times bestselling author Cal Newport comes a bold vision for liberating workers from the tyranny of the inbox--and unleashing a new era of productivity. Modern knowledge workers communicate constantly. Their days are defined by a relentless barrage of incoming messages and back-and-forth digital conversations--a state of constant, anxious chatter in which nobody can disconnect, and so nobody has the cognitive bandwidth to perform substantive work. There was a time when tools like email felt cutting edge, but a thorough review of current evidence reveals that the "hyperactive hive mind" workflow they helped create has become a

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productivity disaster, reducing profitability and perhaps even slowing overall economic growth. Equally worrisome, it makes us miserable. Humans are simply not wired for constant digital communication. We have become so used to an inbox-driven workday that it's hard to imagine alternatives. But they do exist. Drawing on years of investigative reporting, author and computer science professor Cal Newport makes the case that our current approach to work is broken, then lays out a series of principles and concrete instructions for fixing it. In A World without Email, he argues for a workplace in which clear processes--not haphazard

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messaging--define how tasks are identified, assigned and reviewed. Each person works on fewer things (but does them better), and aggressive investment in support reduces the ever-increasing burden of administrative tasks. Above all else, important communication is streamlined, and inboxes and chat channels are no longer central to how work unfolds. The knowledge sector's evolution beyond the hyperactive hive mind is inevitable. The question is not whether a world without email is coming (it is), but whether you'll be ahead of this trend. If you're a CEO seeking a competitive edge, an entrepreneur convinced your productivity could be higher, or an employee

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exhausted by your inbox, A World Without Email will convince you that the time has come for bold changes, and will walk you through exactly how to make them happen.

A Path Forward

BIM Handbook

Hypothesis, Molecular Aspects and Therapeutic Applications

The Power of Habit: by Charles Duhigg | Summary & Analysis

Experiences in Visual Thinking

Rapid Viz

A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers

As tech giants and startups disrupt every market, those who master large-scale software delivery will

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define the economic landscape of the 21st century, just as the masters of mass production defined the landscape in the 20th. Unfortunately, business and technology leaders are woefully ill-equipped to solve the problems posed by digital transformation. At the current rate of disruption, half of S&P 500 companies will be replaced in the next ten years. A new approach is needed. In Project to Product, Value Stream Network pioneer and technology business leader Dr. Mik Kersten introduces the Flow Framework—a new way of seeing, measuring, and managing software delivery. The Flow Framework will enable your company's evolution from project-

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oriented dinosaur to product-centric innovator that thrives in the Age of Software. If you're driving your organization's transformation at any level, this is the book for you.

The Rapid Visual Screening (RVS) handbook can be used by trained personnel to identify, inventory, and screen buildings that are potentially seismically vulnerable. The RVS procedure comprises a method and several forms that help users to quickly identify, inventory, and score buildings according to their risk of collapse if hit by major earthquakes. The RVS handbook describes how to identify the structural type and key weakness characteristics, how

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to complete the screening forms,
and how to manage a successful
RVS program.

*A brand-new edition of the popular
illustrated guide to basic
perspective drawing . . . Basic
Perspective Drawing uses a clear
and accessible visual format to
help students and professional
artists, illustrators, designers, and
architects gain a firm and
thorough grasp of the major
principles and techniques of
perspective drawing. Moving
logically from simple concepts to
specific tools and methods, it
shows how to construct
perspective views one step at a
time, with illustrated examples
that cover every key part of the*

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process. This Third Edition comes with dozens of drawings that make it easy to learn by doing, plus all-new chapters on freehand sketching, scaling the human figure, shading techniques, computer applications, and more. An ideal coursework or self-study companion for students as well as a valuable reference for professionals, *Basic Perspective Drawing, Third Edition* provides an invaluable orientation and foundation for understanding the optical world and how it works. This book brings together the latest research in this new and exciting area of visualization, looking at classifying and modelling cognitive biases,

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together with user studies which reveal their undesirable impact on human judgement, and demonstrating how visual analytic techniques can provide effective support for mitigating key biases. A comprehensive coverage of this very relevant topic is provided though this collection of extended papers from the successful DECISive workshop at IEEE VIS, together with an introduction to cognitive biases and an invited chapter from a leading expert in intelligence analysis. Cognitive Biases in Visualizations will be of interest to a wide audience from those studying cognitive biases to visualization designers and practitioners. It offers a choice of

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research frameworks, help with the design of user studies, and proposals for the effective measurement of biases. The impact of human visualization literacy, competence and human cognition on cognitive biases are also examined, as well as the notion of system-induced biases. The well referenced chapters provide an excellent starting point for gaining an awareness of the detrimental effect that some cognitive biases can have on users' decision-making. Human behavior is complex and we are only just starting to unravel the processes involved and investigate ways in which the computer can assist, however the final section

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supports the prospect that visual analytics, in particular, can counter some of the more common cognitive errors, which have been proven to be so costly.

The Rapid Vis Toolkit

Practice Book

Basic Perspective Drawing

New Trends in Removal of Heavy Metals from Industrial Wastewater

Liminal Thinking

Interdisciplinary Methods of Controlling Waste

The Science of Successful Learning

Gain hands-on experience with HDF5 for storing scientific data in Python. This practical guide quickly gets you up to speed on the details, best practices, and pitfalls of using HDF5 to archive

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and share numerical datasets ranging in size from gigabytes to terabytes. Through real-world examples and practical exercises, you ' ll explore topics such as scientific datasets, hierarchically organized groups, user-defined metadata, and interoperable files. Examples are applicable for users of both Python 2 and Python 3. If you ' re familiar with the basics of Python data analysis, this is an ideal introduction to HDF5. Get set up with HDF5 tools and create your first HDF5 file Work with datasets by learning the HDF5 Dataset object Understand advanced features like dataset

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chunking and compression Learn how to work with HDF5 ' s hierarchical structure, using groups Create self-describing files by adding metadata with HDF5 attributes Take advantage of HDF5 ' s type system to create interoperable files Express relationships among data with references, named types, and dimension scales Discover how Python mechanisms for writing parallel code interact with HDF5

Autodesk Inventor Professional 2022 for Designers is a comprehensive book that introduces users to Autodesk Inventor 2022, a feature-based 3D parametric solid modeling

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software. All environments of this solid modelling software are covered in this book with a thorough explanation of commands, options, and their applications to create real-world products. The mechanical engineering industry examples that are used as tutorials and the related additional exercises at the end of each chapter help the users to understand the design techniques used in the industry to design a product. Additionally, the author emphasizes solid modelling techniques that will improve the productivity and efficiency of the users. After reading this book, the users will

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be able to create solid parts, sheet metal parts, assemblies, weldments, drawing views with bill of materials, presentation views to animate the assemblies and apply direct modelling techniques to facilitate rapid design prototyping. Also, the users will learn the editing techniques that are essential for making a successful design.

Fundamentals of Forensic DNA Typing is written with a broad viewpoint. It examines the methods of current forensic DNA typing, focusing on short tandem repeats (STRs). It encompasses current forensic DNA analysis methods, as well as biology,

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technology and genetic interpretation. This book reviews the methods of forensic DNA testing used in the first two decades since early 1980 ' s, and it offers perspectives on future trends in this field, including new genetic markers and new technologies. Furthermore, it explains the process of DNA testing from collection of samples through DNA extraction, DNA quantitation, DNA amplification, and statistical interpretation. The book also discusses DNA databases, which play an important role in law enforcement investigations. In addition, there is a discussion

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about ethical concerns in retaining DNA profiles and the issues involved when people use a database to search for close relatives. Students of forensic DNA analysis, forensic scientists, and members of the law enforcement and legal professions who want to know more about STR typing will find this book invaluable. Includes a glossary with over 400 terms for quick reference of unfamiliar terms as well as an acronym guide to decipher the DNA dialect Continues in the style of Forensic DNA Typing, 2e, with high-profile cases addressed in D.N.A.Boxes-- "Data, Notes &

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Ancillaries include: instructor manual Web site, with tailored set of 1000+ PowerPoint slides (including figures), links to online training websites and a test bank with key

With this book we try to reach several more-or-less unattainable goals namely: To compromise in a single book all the most important achievements of Monte Carlo calculations for solving neutron and photon transport problems. To present a book which discusses the same topics in the three levels known from the literature and gives us useful information for both

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beginners and experienced
readers. It lists both well-

established old techniques and
also newest findings.

How to Learn Any Language

Fast and Never Forget It

How To Motivate Others

Cognitive Biases in

Visualizations

Representing Informational

Relationships

Zero to Maker

Food Analysis Laboratory

Manual

*A broad and comprehensive
survey of the fundamentals
for electrochemical methods
now in widespread use. This*

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book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

Advances in Animal Disease Diagnosis: Infectious animal diseases caused by pathogenic microorganisms such as bacteria, fungi, and viruses threaten the health and well-being of wildlife,

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livestock and human populations, limit productivity and significantly increase economic losses to each sector. Pathogen de-tetection is an important step for the diagnosis and successful treatment of animal diseases as well as control management in farm and field conditions. The conventional techniques employed to diagnose pathogens in livestock species are time-consuming and sometimes give inconclusive results. On the contrary, molecular techniques have the potential to diag-nose known pathogens/conditions quickly, reliably, and

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unequivocally as well as for novel pathogen detection. New advances in diagnostics and vaccine design using genomics have developed powerful new methods that have also set the stage for the enhanced diagnosis, surveillance, and control of infectious diseases. High-throughput sequencing (HTS), for ex-ample, uses the latest DNA sequencing platforms in the detection, identification, and detailed analysis of both pathogen and host genomes. This book will explore some key opportunities in the context of animal health, such as the detection of new microorganisms and the

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development of improved
diagnosis of emerging or re-
emerging diseases and other
clinical conditions, viz.
biosensors, nanotools, and
omics technologies. Features

- Details comprehensive knowledge on the latest molecular techniques for animal disease diagnosis and management
- Examines how DNA-based diagnostic techniques will assist international efforts to control the introduction of exotic diseases into new geographic areas
- Describes the latest molecular assays for the rapid and accurate detection of pathogens
- Helps in working towards meeting the global challenge

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for sustainable food
production and the
eradication of poverty •
With new biotechnological
developments, this fully
updated book is a treasure
trove of the latest
information in animal and
medical science
Discusses the best methods
of learning, describing how
rereading and rote
repetition are
counterproductive and how
such techniques as self-
testing, spaced retrieval,
and finding additional
layers of information in new
material can enhance
learning.