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*The revised version of this
book to provide essential
guidance, compelling ideas,
and unique ways to*

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Enterprise Architects so that they can successfully perform complex enterprise modernisation initiatives transforming from chaos to coherence. This is not an ordinary theory book describing Enterprise

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Architecture in detail.

*There are myriad of books on
the market and in libraries
discussing details of
enterprise architecture. My
aim here is to highlight
success factors and reflect
lessons learnt from the*

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*field within enterprise
modernisation and
transformation context. As a
practising Senior Enterprise
Architect, myself, I read
hundreds of those books and
articles to learn different
views. They have been*

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*valuable to me to establish
my foundations in the
earlier phase of my
profession. However, what is
missing now is a concise
guidance book showing
Enterprise Architects the
novel approaches, insights*

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*from the real-life
experience and
experimentations, and
pointing out the
differentiating technologies
for enterprise
modernisation. If only there
were such a guide when I*

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started engaging in modernisation and transformation programs. The biggest lesson learned is the business outcome of the enterprise modernisation. What genuinely matters for business is the return on

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*investment of the enterprise
architecture and its
monetising capabilities. The
rest is the theory because
nowadays sponsoring
executives, due to economic
climate, have no interest,
attention, or tolerance for*

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*non-profitable ventures. I
am sorry for disappointing
some idealistic Enterprise
Architects, but with due
respect, it is the reality,
and we cannot change it.
This book deals with reality
rather than theoretical*

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*perfection. Anyone against
this view on this climate
must be coming from another
planet. In this concise,
uncluttered and easy-to-read
book, I attempt to show the
significant pain points and
valuable considerations for*

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*enterprise modernisation
using a structured approach
and a simple narration
especially considering my
audience from non-English
speaking backgrounds. The
architectural rigour is
still essential. We cannot*

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compromise the rigour aiming to the quality of products and services as a target outcome. However, there must be a delicate balance among architectural rigour, business value, and speed to the market. I applied this

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*Elements Of Effective It
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*pragmatic approach to
multiple substantial
transformation initiatives
and complex modernisations
programs. The key point is
using an incrementally
progressing iterative
approach to every aspect of*

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modernisation initiatives, including people, processes, tools, and technologies as a whole. Starting with a high-level view of enterprise architecture to set the context, I provided a dozen of distinct chapters to

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*point out and elaborate on
the factors which can make a
real difference in dealing
with complexity and
producing excellent
modernisation initiatives.
As eminent leaders,
Enterprise Architects are*

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the critical talents who can undertake this massive mission using their people and technology skills, in addition to many critical attributes such as calm and composed approach. Let's keep in mind that as

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*Enterprise Architects, we
are architects, not
firefighters! I have full
confidence that this book
can provide valuable
insights and some 'aha'
moments for talented
architects like yourself to*

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*tackle this enormous mission
of turning chaos to
coherence.*

*An enterprise architecture
tries to describe and
control an organisation's
structure, processes,
applications, systems and*

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techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling

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*language. Lankhorst and his
co-authors present such an
enterprise modelling
language that captures the
complexity of architectural
domains and their relations
and allows the construction
of integrated enterprise*

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architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating

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with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the

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*transition from 'as-is' to
'to-be', the authors also
describe analysis methods
for assessing both the
qualitative impact of
changes to an architecture
and the quantitative aspects
of architectures, such as*

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performance and cost issues.

*The modelling language
presented has been proven in
practice in many real-life
case studies and has been
adopted by The Open Group as
an international standard.
So this book is an ideal*

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*Elements Of Effective It
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*companion for enterprise IT
or business architects in
industry as well as for
computer or management
science students studying
the field of enterprise
architecture.*

This book provides practical

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*advice on how to develop an
enterprise architecture
practice. The authors
developed different tools
and models to support
organizations in
implementing and
professionalizing an*

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*enterprise architecture
function. Coverage applies
these tools and models to a
number of different
organizations and, as a
result, will help readers
avoid potential pitfalls and
achieve success with*

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enterprise architecture.

This book presents an approach to enterprise architecture, which enables corporations to achieve their business objectives faster. Focusing on the governance of IT in the

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*organization, it provides
tangible tools, advice and
strategies for implementing
and designing the
architectural process within
a corporation that will make
a major contribution in
driving the business forward*

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and achieve its goals.

*The Cornerstones of
Enterprise Architecture
Practical Solutions for
Recurring IT-Architecture
Problems
Enterprise Architecture
Function*

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*Digital Transformation of
Enterprise Architecture
Enterprise Architecture for
Strategic Management of
Modern IT Solutions
Developing a Blueprint for
Data, Applications, and
Technology*

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Elements Of Effective It *Strategic Enterprise*

Architecture Management

Organizations today
exist in an environment
of unprecedented change.
They do so against a
backdrop of a global,

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competitive marketplace,
the fast-paced
enablement of
technology, amplified
regulation and
accelerating
organizational

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complexity. Many organizations are addressing change in a sub-optimal way and they are operating without a clear view of where their operational risks

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lie. It is these dynamics that are leading organizations to recognise and embrace Business Architecture. Despite this environment, Business

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Architecture can be a difficult 'sell' - it is often perceived to be abstract and lacking in tangible delivery. To succeed, Business Architecture must be

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pragmatic and, to be sustainable, it must focus on achieving long-term value and, at the same time, recognise the shorter-term tactical needs of the

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organisation. With these challenges in mind, this book provides a practical guide on how to employ Business Architecture and how to build a balanced

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proposition that delivers value to a broad range of stakeholders. As the book states, Business Architecture should not be practised in

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isolation, nor should it be thought of as a one-off process; it needs to be woven into the fabric of the organization. And so the authors illustrate the

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opportunities for
weaving the Business
Architecture Practice
into this fabric through
the various stakeholders
and life cycles that
exist, both formally and

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informally, within an organization. Whilst recognizing best practice, this book explores a new, inspirational level of Business Architecture

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whilst acknowledging
that the best way to
realize the vision is
one step at a time.
Gain a 360-degree view
of Microsoft Power
Platform and combine the

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benefits of Power Apps,
Power BI, Power
Automate, Azure, and
Dynamics 365 to build an
enterprise application
platform for your
organization Key

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Features Explore various
Microsoft cloud
components and find out
how they can enhance
your Power Platform
solutions Get to grips
with Microsoft Power

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Platform's security and
extensibility,

integration, and data
migration models Discover
architectural best
practices for designing
complex enterprise

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solutionsBook
Management

Description For forward-
looking architects and
decision makers who want
to craft complex
solutions to serve
growing business needs,

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Microsoft Power Platform
Enterprise Architecture
offers an array of
architectural best
practices and
techniques. With this
book, you'll learn how

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to design robust software using the tools available in the Power Platform suite and be able to integrate them seamlessly with various Microsoft 365 and Azure

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components. Unlike most other resources that are overwhelmingly long and unstructured, this book covers essential concepts using concise yet practical examples

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to help you save time.
You'll develop the
skills you need to
architect, design, and
manage a complex
solution as you follow
the journey of a

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fictitious enterprise
customer as they enter
the world of Power
Platform. Throughout the
book, you'll discover
how to combine the
functionality of Power

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Apps, Power Automate,
Power BI, and Power
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various methodologies to
effectively address
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management, security,

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and extensibility.

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how to overcome common
challenges in migrating
data to and from

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you'll have the
strategic perspective of
an enterprise architect
to make accurate
architectural decisions
for your complex Power

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Platform projects. What
you will learn Understand
various Dynamics 365
CRM, ERP, and AI modules
for creating Power
Platform
solutions Enhance Power

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Platform with Microsoft
365 and Azure Find out
which regions, staging
environments, and user
licensing groups need to
be employed when
creating enterprise

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solutionsImplement
sophisticated security
by using various
authentication and
authorization
techniquesExtend Power
Apps, Power BI, and

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Power Automate to create
custom

applicationsIntegrate

your solution with

various in-house

Microsoft components or

third-party systems

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using integration
patternsWho this book is
for This book is for
enterprise architects
and technical decision
makers who want to craft
complex solutions using

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Microsoft Power Platform
to serve growing
business needs and to
stay competitive in the
modern IT world. A basic
understanding of
Microsoft Power Platform

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will help you to get
started with this book.

The book attempts to
answer a few of the
common questions related
to Enterprise
Architecture (EA) and

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SOA. What are the issues? What is EA? Why should an organization consider EA? How to build the Enterprise Architecture and document it. What are

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the roadblocks,
politics, governance,
process and design
method? How to measure
the value delivered by EA
and its maturity and and
how to select an

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Enterprise Architect? An
innovative EA Framework,
the associated metamodel
and generic Enterprise
Reference Maps
(templates) for the
business process,

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applications and infrastructure layers are proposed. The framework looks like a content page showing the chapters of a book or, in this case, the

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components of the
Enterprise Architecture
without actually
describing them but
showing how they fit
into the whole. The book
then identifies and

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summarises Best
Practices in the
Enterprise Architecture
and SOA development, EA
patterns, the
integration to the
mundane solution

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architecture, delivery
checklistsÉ The book is
intended to be a
document summarising why
and how to build an
Enterprise Architecture.
Enterprise Architecture

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is the discipline of managing the complexities of the Business-IT landscape. It has been around since the 1980's, when for the first time computers

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were connected in networks, and the already serious (and unsolved) problem of the complexity of computer programs for relatively simple business needs

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turned into the huge
problem of large
networks of them in
complex business
landscapes. In spite of
many 'best practices'
and 'frameworks' that

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have been introduced,
Enterprise Architecture
is not a great success.
After thirty years, we
still have the same
problems. Chaos is still
everywhere. Projects

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still fail far too often. In this book, (hidden) assumptions behind the existing approaches to enterprise architecture are challenged, and a more

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realistic perspective
that helps us battle the
complexities and
unpredictabilities of
today's Business-IT
landscapes is described.
Practical suggestions

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about enterprise
architecture governance
and products, based on
real-world experience
with the described
approach, complete the
book. From general

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management to IT professionals, everyone who is confronted with the problem of managing Business-IT landscapes can profit from the insights this book

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offers. No specialist
prior knowledge is
required. Gerben Wierda
is author of Mastering
ArchiMate, and was,
amongst other things,
Lead Architect of the

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Judiciary in The
Netherlands, Lead
Architect of APG Asset
Management, and is now
Team Coordinator
Architecture & Design at
APG. He holds an M.Sc in

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Physics from the
University of Groningen
and an MBA from RSM
Erasmus, Rotterdam.

A Modern Enterprise
Architecture Approach
Modelling, Communication

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and Analysis
Integrated
Transformation
Strategies
Complex Enterprise
Architecture
Masterclass Enterprise

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Architecture Management

IT Architecture For

Dummies

Enterprise Business

Architecture

**Enterprises, from small to
large, evolve continuously.**

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As a result, their structures are transformed and extended continuously. Without some means of control, such changes are bound to lead to an overly complex, uncoordinated and heterogeneous environment

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that is hard to manage and hard to adapt to future changes. Enterprise architecture principles provide a means to direct transformations of enterprises. As a consequence, architecture

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principles should be seen as
the cornerstones of any
architecture. In this book,
Greefhorst and Proper focus
on the role of architecture
principles. They provide
both a theoretical and a
practical perspective on

architecture principles. The theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles. Architecture principles are

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regarded as a specific class of normative principles that direct the design of an enterprise, from the definition of its business to its supporting IT. The practical perspective on architecture principles is

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concerned with an approach to the formulation of architecture principles, as well as their actual use in organizations. To illustrate their use in practice, several real-life cases are discussed, an application of

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architecture principles in
TOGAF is included, and a
catalogue of example
architecture principles is
provided. With this broad
coverage, the authors target
students and researchers
specializing in enterprise

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architecture or business information systems, as well as practitioners who want to understand the foundations underlying their practical daily work.

Why collaborative enterprise architecture? -- What is

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**enterprise architecture --
What enterprise architects
do: core activities of EA --
EA frameworks -- EA maturity
models -- Foundations of
collaborative EA -- Towards
pragmatism: lean and agile
EA -- Inviting to**

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participation: eam 2.0 --

The next steps: taking
collaborative EA forward.

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**A career guide for aspiring,
current Enterprise
Architects or those leading
EA teams or considering this
role as a career change.
This resource provides a
step-by-step approach to
gaining the hard and soft**

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**skills needed to be in the
top 10 percent of all
enterprise and IT
architects.**

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and BPMN

**Designing Enterprise
Architecture Frameworks**

*Modeling Enterprise
Architecture with TOGAF
explains everything you
need to know to*

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*effectively model
enterprise architecture
with The Open Group
Architecture Framework
(TOGAF), the leading EA
standard. This solution-
focused reference*

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*Elements Of Effective It
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*presents key techniques
and illustrative
examples to help you
model enterprise
architecture. This book
describes the TOGAF
standard and its*

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*structure, from the
architecture*

*transformation method to
governance, and presents
enterprise architecture
modeling practices with
plenty of examples of*

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TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its

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*dimensions. Focusing on
the architecture
transformation method,
TOGAF provides a wide
framework, which covers
the repository,
governance, and a set of*

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recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF.

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*Includes intuitive
summaries of the complex
TOGAF standard to let
you effectively model
enterprise architecture
Uses practical examples
to illustrate ways to*

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*adapt TOGAF to the needs
of your enterprise*

*Provides model examples
with Modelio, a free
modeling tool, letting
you exercise TOGAF
modeling immediately*

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using a dedicated tool

Combines existing

modeling standards with

TOGAF

This book is positioned

as a first in a series of

books on enterprise

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*architecture needed for
a Master of Enterprise
Architecture program,
and is targeted both at
university students and
practitioners with a
drive to increase their*

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*understanding of these
elds. As an introductory
book, this book aims to
explore the concept of
enterprise architecture.
At rst glance, writing
such an introductory*

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*book might seem as a
straight forward task of
setting up a structure
and filling in "the
blanks. " However,
writing this book turned
out to be a pleasant*

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*journey of discovery.
Based on our past
experiences, each of us
had a clear
understanding of
enterprise architecture,
based on several years*

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*of experience and
insight in the eld.*

*However, when we started
writing this book, and
each of us exposed our
individual
understandings, it*

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became apparent that our understanding of the eld differed in several ways. This prompted several discussions leading to an abundance of new insights. Without

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*exception, these discussions
took place in a pleasant
and open atmosphere, fueled
by our shared drive for unde
rstanding and increased ins
ight. We are now even more co
nvinced than before, that*

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*the old enterprise
architecture is a true
multi-disciplinary
profession. In the
resulting book, we would
like to share our
insights, while also*

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*hoping to continue our
discussions, now also
involving you as a
reader. We also realise
that the journey is
still far from complete.
While this introductory*

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*book provides an
overview of the eld of
enterprise architecture
from the perspective of
our insights, many
aspects need further re
nement.*

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*This book offers a
coherent modeling
language that captures
the complexity of
architectural domains
and their relations,
allowing the*

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*construction of
integrated enterprise
architecture models.
Introduces the
ArchiMate(r) language
for enterprise
architecture.*

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Enterprise architecture defines a firm's needs for standardized tasks, job roles, systems, infrastructure, and data in core business processes. This book

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*explains enterprise
architecture's vital
role in enabling - or
constraining - the
execution of business
strategy. It provides
frameworks, case*

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examples, and more.

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A to Z

Frameworks, Business

Process Modeling, SOA,

and Infrastructure

Technology

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Practices, Ready-to-Use
Insights*

Practical Process

Automation

Microsoft Power Platform

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*The Formal Link between
Strategy and Results
Pragmatic Enterprise
Architecture*

"This book provides guidance on how
to employ enterprise architecture (EA)
in deploying and managing

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information technology (IT) solutions from the perspectives of pragmatic strategies. It uses sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine challenges and complexities of EA"--

Driven by the need and desire to

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reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and

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management. To establish a framework for discussion, this book begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In

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particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as formal architecture standards and all four layers of these models: the business architecture, the information architecture, the solution

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architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking

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and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a

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number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the

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strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers.

As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is

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also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company ' s structure and processes. To accomplish that, they need to connect the IT engine room to

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the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but

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rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company ' s technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate

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technical and organizational topics
CTOs and senior technical architects
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works IT managers who want to learn
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large-scale transformation
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achieve the goal of genuine IT governance. The key here is the successful development of enterprise architecture as the necessary foundation. With its capacity to span and integrate business procedures, IT applications and IT infrastructure, enterprise architecture opens these

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areas up to analysis and makes them rich sources of critical data. Enterprise architecture thereby rises to the status of a crucial management information system for the CIO. The focused analysis of the architecture (its current and future states) illuminates the path to concrete IT

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the life cycles of the
enterprise and the
establishment of
appropriate
collaboration and
governance processes.
When carried out

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together, BPM provides the business context, understanding, and metrics, and EA provides the discipline to translate business vision and strategy into

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architectural change.

Both are needed for sustainable continuous improvement. This book provides thought leadership and direction on the topic of BPM and

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EA synergies. Although technical in nature, it is not a typical IBM Redbooks publication. The book provides guidance and direction on how to collaborate

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effectively across
tribal boundaries rather
than technical details
about IBM software
products. The primary
audience for this book
is leaders and

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architects who need to understand how to effectively combine BPM and EA to drive, as a key differentiator, continuous improvement and transformational

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change with enterprise
scope.

Enterprise architecture
requires an
understanding of all
technologies,
strategies, and data

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consumption throughout the enterprise. To this end, one must strive to always broaden knowledge of existing, as well as emerging trends and solutions. As a trade,

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this role demands an understanding beyond the specificities of technologies and vendor products

In today's IT architectures,

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microservices and serverless functions play increasingly important roles in process automation. But how do you create meaningful,

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comprehensive, and
connected business
solutions when the
individual components
are decoupled and
independent by design?
Targeted at developers

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and architects, this book presents a framework through examples, practical advice, and use cases to help you design and automate complex

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processes. As systems are more distributed, asynchronous, and reactive, process automation requires state handling to deal with long-running

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interactions. Author
Bernd Ruecker
demonstrates how to
leverage process
automation technology
like workflow engines to
orchestrate software,

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humans, decisions, or bots. Learn how modern process automation compares to business process management, service-oriented architecture, batch

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processing, event
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workflow engines and
executable process
models with BPMN

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Understand the
difference between
orchestration and
choreography and how to
balance both
This book gathers
together a critical body

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of knowledge on what
enterprise architecture
(EA) is and how it can
be used to better
organize the functions
of systems across an
enterprise for an

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effective business-IT
alignment. The chapters
provide a solid
foundation for a cross-
disciplinary
professional practice.

Modeling Enterprise

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Architecture with TOGAF
Combining Business
Process Management and
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The Business Case,
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Architecture

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Building an Enterprise

Architecture Practice

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plan, develop, validate, or
evolve the design of an*

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*enterprise architecture function
so that it fully meets the
organization's needs. The
reader will benefit from this
book in two ways. First, it
provides a structured overview
and orientation to the subject of*

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*architecture from an
architecture function
perspective. Second, it guides
through the process of planning,
building, and operating your
own architecture organization
based on a generic architecture*

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function blueprint presented in the form of a pattern language offering a structured means for navigating, contextualizing, combining, and composing the architecture function patterns. The book is structured in six

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chapters. Chapter 1

“Introduction” explains the starting position and objectives of the book and introduces key concepts that will be explained further in subsequent chapters.

Chapter 2 “Architecture

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*Function Pattern Language”
introduces the concepts of
pattern, pattern catalogue,
pattern topology, and ontology
and explains how these
concepts are combined to form
a pattern language for planning,*

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*designing, and operating an
architecture function. Next,
Chapter 3 “Architecture
Function – Context” introduces
concepts that are crucial for
understanding the challenges
that an architecture function*

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*faces and presents a generic
schema for the business
organizations and value chain.
Chapter 4 “Architecture
Function - Challenge” looks at
an architecture function from a
black box perspective and*

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outlines the expectations and requirements that companies place on architecture organizations. It discusses the building blocks of an architecture function, the services it provides along the

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enterprise value chain, and the quality attributes that enterprises expect from their functions. Chapter 5 “Architecture Function - Constitution” then shifts from a black-box perspective to a white-

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*box perspective and outlines
the generic design of an
architecture function in order to
realize functional and quality-
related requirements. Chapter 6
“Pattern Catalogue” eventually
introduces the pattern*

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*catalogue with a total of 48
architecture function patterns.
These patterns suggest designs
for collaboration between the
architecture function and
enterprise organizations, for the
elaboration and development of*

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*enterprise services along the
enterprise value chain, or for
aligning architecture
governance with enterprise
governance. The book is
intended for a broad readership,
including enterprise, domain,*

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*and solution architects,
lecturers and students, and
anyone else interested in
understanding the value
proposition, responsibilities,
outcomes, methods, and
practices of architecture*

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*Elements Of Effective It
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*functions. It introduces the basic
concepts and theories needed
to understand the pattern
language presented and the
patterns it summarizes.*

*The Enterprise Architecture
Management (EAM) discipline*

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deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers, this book takes a different stance: It explains how top executives can

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use EAM to leverage their strategic planning and controlling processes, as well as how it can contribute to their sustainable competitive advantage. Based on the analysis of best practices from

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eight leading European companies from various industries, the book presents the crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes,

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methodologies, and culture in order to bring their management to the next level. Beyond this, the book points out how EAM could develop in the next decade, thus allowing today's managers to prepare for

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*the future architecture
management.*

This textbook provides a hands-on introduction to enterprise architecture management. It guides the reader through the applications of methods and

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*tools to typical business
problems by presenting
enterprise architecture
frameworks and by sharing
experiences from industry. The
structure of the book represents
the typical stages of the journey*

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of an enterprise architect.

Chapter 1 addresses the central question of what to achieve with the introduction of an enterprise architecture. Chapter 2 then introduces concepts and visualizations for business

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architecture that help with understanding the business. In chapter 3 the development of an application architecture is outlined, which provides transparency on information systems and their business

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context. Next, chapter 4 presents visual tools to analyze, improve and eventually optimize the application landscape. Chapter 5 discusses both traditional organizational as well as collaborative

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*approaches to enterprise
architecture management.*

*Eventually, several established
enterprise architecture
frameworks like TOGAF,
Zachmann, ArchiMate, and IAF
are described in chapter 6. The*

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*book concludes with a summary
and an outlook on future
research potential in chapter 7.
Based on their experiences
through several years of
teaching, the authors introduce
students step-by-step to*

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*enterprise architecture
development and management.
Their book is intended as a
guide for master classes at
universities and includes lots of
exercises and references for
further reading.*

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Every enterprise architect faces similar problems when designing and governing the enterprise architecture of a medium to large enterprise. Design patterns are a well-established concept in software

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*engineering, used to define
universally applicable solution
schemes. By applying this
approach to enterprise
architectures, recurring
problems in the design and
implementation of enterprise*

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architectures can be solved over all layers, from the business layer to the application and data layer down to the technology layer. Inversini and Perroud describe patterns at the level of enterprise architecture, which

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*they refer to as Enterprise
Architecture Patterns. These
patterns are motivated by
recurring problems originating
from both the business and the
underlying application, or from
data and technology*

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*architectures of an enterprise
such as identity and access
management or integration
needs. The Enterprise
Architecture Patterns help in
planning the technological and
organizational landscape of an*

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*enterprise and its information
technology, and are easily
embedded into frameworks
such as TOGAF, Zachman or
FEA. This book is aimed at
enterprise architects, software
architects, project leaders,*

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business consultants and everyone concerned with questions of IT and enterprise architecture and provides them with a comprehensive catalogue of ready-to-use patterns as well as an extensive theoretical

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*framework to define their own
new patterns.*

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straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements.

"Regardless of the type of architecture, architecture itself is an

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organized accumulation of knowledge within a particular domain. While we generally conceive of its representation as a set of diagrams, containing specific notations and taxonomies of symbols and glossary terms, an architecture may actually be represented using anything that can

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be arranged in a pattern to record information. The earliest forms of architecture relate to architecting buildings, monuments, military disciplines, organized religion, music, storytelling, and various other forms within the arts. These early forms of architecture of course predate

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computer related architectures by thousands of years. That said, it is worth noting that there are a number of common elements among architectures irrespective of their relative age, such as forms of standardization, reusable structures, the accumulation of knowledge, and

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providing a context for understanding something. Needless to say, anyone can be an architect in a topic in which they have a deep understanding and appreciation of. While one obvious difference among architects is the amount and variety of pertinent experience, the less obvious

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difference is the degree to which an architect recognizes the potential forms of standardization, reusable structures, accumulation of knowledge, relationships among the components, and use of architecture as an accelerator to more rapidly understand the context and scope of a

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particular topic or to rapidly convey it to another. Architectures as a result must be easy to understand"--

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Implement successful and cost-
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projects. This book provides a new

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approach to developing enterprise architecture based on the idea of emergent behaviors—where instead of micromanaging system implementation, the enterprise architecture effort establishes clear goals and leaves the details to the implementation teams. System

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development efforts are measured based on their contribution to achieving business goals instead of implementing specific (possibly outdated) requirements. Most enterprise architecture initiatives employ one of the existing system architecture frameworks such as

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Zachman or The Open Group

Architecture Framework, but these are not well-suited for enterprise architecture in a modern, agile organization. The new approach presented in this book is based on the author's experience with large enterprise architecture efforts. The

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approach leverages research into complex adaptive systems and emergent behaviors, where a few simple rules result in complex and efficient enterprise behaviors.

Simplifying the task of establishing and maintaining the enterprise architecture cuts the costs of building and

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maintaining the architecture and frees up those resources for more productive pursuits. System implementers are given the freedom to rapidly adapt to changing user needs without the blessing of the enterprise modeling priesthood, and the architecture is transformed from a

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static pile of obscure models and documents into an operational framework that can be actively used to manage an enterprise's resources to better achieve business goals. The enterprise architect is free to stop focusing on building and maintaining models and start focusing on

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achieving business goals. What You'll
Learn Refocus enterprise architecture
on business needs by eliminating most
of the enterprise-level models
Delegate tasks to the development
teams who do system implementation
Document business goals, establish
strategies for achieving those goals,

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and measure progress toward those goals Measure the results and gauge whether the enterprise architecture is achieving its goals Utilize appropriate modeling techniques that can be effectively used in an enterprise architecture Who This Book Is For Architecture practitioners and

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architecture managers: Practitioners are experienced architects who have used existing frameworks such as Zachman, and have experience with formal architecture modeling and/or model-based system engineering; managers are responsible for managing an enterprise architecture

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project and either have experience with enterprise architecture projects that were ineffective or are looking for a different approach that will be more cost-effective and allow for more organizational agility. Government program managers looking for a different approach to make enterprise

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***approach to EAP,
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architectures,
procedures, checklists,
and useful guidelines.
A critical part of any
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***strategic planning is
the creation of an
Enterprise Business
Architecture (EBA) with
its formal linkages.
Strategic research and
analysis firms have***

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***recognized the
importance of an
integrated enterprise
architecture and they
have frequently reported
on its increasing value
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book makes digital
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***with it, and these
technologies in turn
reveal the essence of
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quest for
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***scalability,
availability, etc., that
has directed and driven
the evolution of the
IT/IS industry in the
past 50 years. It is
this very quest that has***

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led to the emergence of technologies like service-oriented, cloud, and big data computing. In addition to the conventional attributes of EA like

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***interoperability,
scalability and
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attributes of mobility,
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embedded systems,
cryptography, data
mining, and interactive
interfaces that are
essential for digital
transformation of***

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***enterprise architecture.
Introduces interactive
interfaces like voice,
gaze, gesture and 3D
interfaces. Provides an
overview of blockchain
computing, soft***

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***computing, and customer
interaction systems.***

***Digital Transformation
of Enterprise***

***Architecture proposes
that to withstand the
disruptive digital***

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***storms of the future,
enterprises must bring
about digital
transformation, i.e. a
transformation that
affects an exponential
change (amplification or***

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**attenuation) in any
aspect of the**

**constituent attributes
of EA. It proposes that
each of these
technologies (service-
oriented, cloud, big**

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***data, context-aware,
IoT, blockchain, soft,
and interactive
computing) bring about
digital transformation
of the corresponding EA
attribute viz.***

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***interoperability,
scalability,
availability, mobility,
ubiquity, security,
analyticity, and
usability.***

Based on an extensive

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***study of the actual
industry best practices,
this book provides a
systematic conceptual
description of an EA
practice and offers
practically actionable***

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***answers to the key
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***Creating a Foundation
for Business Execution***

Enterprise Architecture (EA) is an essential part of the fabric of a business; however, EA also transcends and transforms

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technology and moves it into the business space. Therefore, EA needs to be discussed in an integrated, holistic, and comprehensive manner. Only such an integrated approach to EA can provide the foundation for a transformation that readies the

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business for the myriad enterprise-wide challenges it will face. Highly disruptive technologies such as Big Data, Machine Learning, and Mobile and Cloud Computing require a fine balance between their business and technical aspects as an organization

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moves forward with its digital transformation. This book focuses on preparing all organizations – large and small – and those wishing to move into them for the impact of leveraging these emerging, disruptive, and innovative

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technologies within the EA
framework.

bull; Written by expert practitioners
who have hands-on experience
solving real-world problems for
large corporations bull; Helps
enterprise architects make sense of

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data, systems, software, services, product lines, methodologies, and much more bull; Provides explanation of theory and implementation with real-world business examples to support key points

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Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo

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in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending

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implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these

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topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning

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and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation

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Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and

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enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and

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schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

A solid introduction to the practices, plans, and skills required for developing a smart system

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architecture Information
architecture combines IT skills with
business skills in order to align the
IT structure of an organization with
the mission, goals, and objectives of
its business. This friendly
introduction to IT architecture walks

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you through the myriad issues and complex decisions that many organizations face when setting up IT systems to work in sync with business procedures. Veteran IT professional and author Kirk Hausman explains the business value

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behind IT architecture and provides you with an action plan for implementing IT architecture procedures in an organization. You'll explore the many challenges that organizations face as they attempt to use technology to enhance

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their business's productivity so that you can gain a solid understanding of the elements that are required to plan and create an architecture that meets specific business goals. Defines IT architecture as a blend of IT skills and business skills that focuses on

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look to IT Architecture For
Dummies for guidance in this field.
An Enterprise Architecture
Development Framework