

# The Ultimate Guide to Financial Modeling Best Practices

## Introduction

Like many computer programmers, people who build financial models can get quite opinionated about the “right way” to do it.

In fact, there is surprisingly little consistency across Wall Street around the structure of financial models. One reason is that models can vary widely in purpose. For example, if your task was to build a [discounted cash flow \(DCF\) model](#) to be used in a [preliminary pitch book](#) as a valuation for one of 5 potential acquisition targets, it would likely be a waste of time to build a highly complex and feature-rich model. The time required to build a super complex DCF model isn't justified given the model's purpose.

On the other hand, a leveraged finance model used to make thousands of loan approval decisions for a variety of loan types under a variety of scenarios necessitates a great deal of complexity.

Understanding the purpose of the model is key to determining its optimal structure. There are two primary determinants of a model's ideal structure: **granularity** and **flexibility**. Let's consider the following 5 common financial models:

Model	Purpose	Granularity	Flexibility
<b>One page DCF</b>	Used in a buy side pitch book to provide a valuation range for one of several potential acquisition targets.	Low. Ball-park valuation range is sufficient. Small. Entire analysis can fit on one worksheet < 300 rows.	Low. Not reusable without structural modifications. Will be used in a specific pitch and circulated between just 1-3 deal team members.
<b>Fully Integrated DCF</b>	Used to value target company in a fairness opinion presented to the acquiring company board of directors.	Medium.	Low. Not reusable without structural modifications. Will be tailored for use in the fairness opinion and circulated between deal time members.
<b>Comps model template</b>	Used as the standard model by the entire industrial team at a bulge bracket bank.	Medium.	High. Reusable without structural modifications. A template to be used for a variety of pitches and deals by many analysts and associates, possibly other stakeholders. Will be used by people with varying levels of Excel skill.
<b>Restructuring model</b>	Built specifically for a multinational corporation to stress test the impact of selling 1 or more businesses as part of a restructuring advisory engagement.	High.	Medium. Some re-usability but not quite a template. Will be used by both the deal team and counterparts at the client firm.
<b>Leveraged finance model</b>	Used in the loan approval process to analyze loan performance under various operating scenarios and credit events.	High.	High. Reusable without structural modifications. A template to be used group wide.

## Financial model granularity

A critical determinant of the model's structure is **granularity**. Granularity refers to how detailed a model needs to be. For example, imagine you are tasked with performing an LBO analysis for Disney. If the purpose is to provide a back-of-the-envelope floor valuation range to be used in a preliminary pitch book, it might be perfectly appropriate to perform a “high level” LBO analysis, using consolidated data and making very simple assumptions for financing.

If, however, your model is a key decision making tool for financing requirements in a potential recapitalization of Disney, a far higher degree of accuracy is incredibly important. The differences in these two examples might involve things like:

# Oxford Guide To Financial Modeling

**WJ Hussar**



## **Oxford Guide To Financial Modeling:**

*The Oxford Guide to Financial Modeling* Thomas S. Y. Ho, Sang-bin Yi, 2004 The essential premise of this book is that theory and practice are equally important in describing financial modeling In it the authors try to strike a balance in their discussions between theories that provide foundations for financial models and the institutional details that provide the context for applications of the models The book presents the financial models of stock and bond options exotic options investment grade and high yield bonds convertible bonds mortgage backed securities liabilities of financial institutions the business model and the corporate model It also describes the applications of the models to corporate finance Furthermore it relates the models to financial statements risk management for an enterprise and asset liability management with illiquid instruments The financial models are progressively presented from option pricing in the securities markets to firm valuation in corporate finance following a format to emphasize the three aspects of a model the set of assumptions the model specification and the model applications Generally financial modeling books segment the world of finance as investments financial institutions corporate finance and securities analysis and in so doing they rarely emphasize the relationships between the subjects This unique book successfully ties the thought processes and applications of the financial models together and describes them as one process that provides business solutions Created as a companion website to the book readers can visit [www.thomasho.com](http://www.thomasho.com) to gain deeper understanding of the book's financial models Interested readers can build and test the models described in the book using Excel and they can submit their models to the site Readers can also use the site's forum to discuss the models and can browse server based models to gain insights into the applications of the models For those using the book in meetings or class settings the site provides Power Point descriptions of the chapters Students can use available question banks on the chapters for studying

[The Oxford Guide to Financial Modeling](#) Thomas S. Y. Ho, 2023 This text presents the financial models of stock and bond options exotic options investment grade and high yield bonds convertible bonds mortgage backed securities liabilities of financial institutions the business model and the corporate model

[Introduction to Financial Models for Management and Planning](#) James R. Morris, John P. Daley, 2017-05-30 A properly structured financial model can provide decision makers with a powerful planning tool that helps them identify the consequences of their decisions before they are put into practice *Introduction to Financial Models for Management and Planning* Second Edition enables professionals and students to learn how to develop and use computer based models for financial planning This volume provides critical tools for the financial toolbox then shows how to use them tools to build successful models

**Financial Modelling in Practice** Michael Rees, 2011-11-09 *Financial Modelling in Practice* A Concise Guide for Intermediate and Advanced Level is a practical comprehensive and in depth guide to financial modelling designed to cover the modelling issues that are relevant to facilitate the construction of robust and readily understandable models Based on the authors extensive experience of building models in business and finance and of training

others how to do so this book starts with a review of Excel functions that are generally most relevant for building intermediate and advanced level models such as Lookup functions database and statistical functions and so on It then discusses the principles involved in designing structuring and building relevant accurate and readily understandable models including the use of sensitivity analysis techniques before covering key application areas such as the modelling of financial statements of cash flow valuation risk analysis options and real options Finally the topic of financial modelling using VBA is treated Practical examples are used throughout and model examples are included in the attached CD ROM Aimed at intermediate and advanced level modellers in Excel who wish to extend and consolidate their knowledge this book is focused practical and application driven facilitating knowledge to build or audit a much wider range of financial models Note CD ROM DVD and other supplementary materials are not included as part of eBook file

**Introduction To Derivative Securities, Financial Markets, And Risk Management, An (Third Edition)** Robert A Jarrow,Arkadev

Chatterjea,2024-05-03 The third edition updates the text in two significant ways First it updates the presentation to reflect changes that have occurred in financial markets since the publication of the 2nd edition One such change is with respect to the over the counter interest rate derivatives markets and the abolishment of LIBOR as a reference rate Second it updates the theory to reflect new research related to asset price bubbles and the valuation of options Asset price bubbles are a reality in financial markets and their impact on derivative pricing is essential to understand This is the only introductory textbook that contains these insights on asset price bubbles and options

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*Valuation* Paul Pignataro,2013-07-10 Written by the Founder and CEO of the prestigious New York School of Finance this book schools you in the fundamental tools for accurately assessing the soundness of a stock investment Built around a full length case study of Wal Mart it shows you how to perform an in depth analysis of that company s financial standing walking you through all the steps of developing a sophisticated financial model as done by professional Wall Street analysts You will construct a full scale financial model and valuation step by step as you page through the book When we ran this analysis in January of 2012 we estimated the stock was undervalued Since the first run of the analysis the stock has increased 35 percent Re evaluating Wal Mart 9months later we will step through the techniques utilized by Wall Street analysts to build models on and properly value business entities Step by step financial modeling taught using downloadable Wall Street models you will construct the model step by step as you page through the book Hot keys and explicit Excel instructions aid even the novice excel modeler Model built complete with Income Statement Cash Flow Statement Balance Sheet Balance Sheet Balancing Techniques Depreciation Schedule complete with accelerating depreciation and deferring taxes working

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Securities Valuation Thomas S. Y. Ho, 2005 Securities Valuation Applications of Financial Modeling is a clear concise guide to securities valuation and the principles of financial theory It describes state of the art methods for valuing a broad range of securities equity equity and interest rate options swaps and swaptions treasuries corporate bonds with and without credit risks mortgage backed securities collateralized mortgage obligations credit derivative swaps and more Thomas Ho and Sang Bin Lee use their combined fifty years of experience in academia financial business and public services to present students and general readers with twenty six challenging cases These cases describe the contexts in which financial models are used the practical complications of these models and ways to deal with their limitations Each chapter begins with a problem in valuation formulates models for it and then provides the solutions The assumptions input data and output solutions for each model are clearly stated The model is illustrated by a numerical example rendered in Excel A companion website [www.thomasho.com](http://www.thomasho.com) contains more than 130 Excel files of all the financial models from this book and its three companion volumes Users can download the models analyze them on their spreadsheets and use them to do practice exercises Securities Valuation Applications of Financial Modeling is ideal for undergraduate and graduate courses in finance and mathematical finance as well as for professional training programs It is part of a series on financial modeling by the authors that also includes The Oxford Guide to Financial Modeling Future titles in the series will focus on financial modeling for options futures and derivatives and financial modeling for financial institutions

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