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#### PRAISE FOR

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—Jerald E. Pinto, PhD, CFA senior director (ret.), CFA Institute

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-Harvey A. Poniachek, PhD, CVA, professor, Rutgers University

Preparing a valuation of a business is a very important undertaking. Shannon Pratt's *Valuing a Business* has been one of the most important sources I have used over the last 40 years of preparing business valuations. I cite *Valuing a Business* regularly. The sixth edition of this book touches on every aspect of business valuation. It is an invaluable resource.

—Kenneth M. Haffey, CPA, CVA, CEPA, partner, Marcum LLC, adjunct professor, Weatherhead School of Management, Case Western Reserve University; instructor, Exit Planning Institute SIXTH EDITION

# SHANNON PRATT'S VALUING

# BUSINESS

The Analysis and Appraisal of Closely Held Companies

SHANNON P. PRATT AND ASA EDUCATIONAL FOUNDATION





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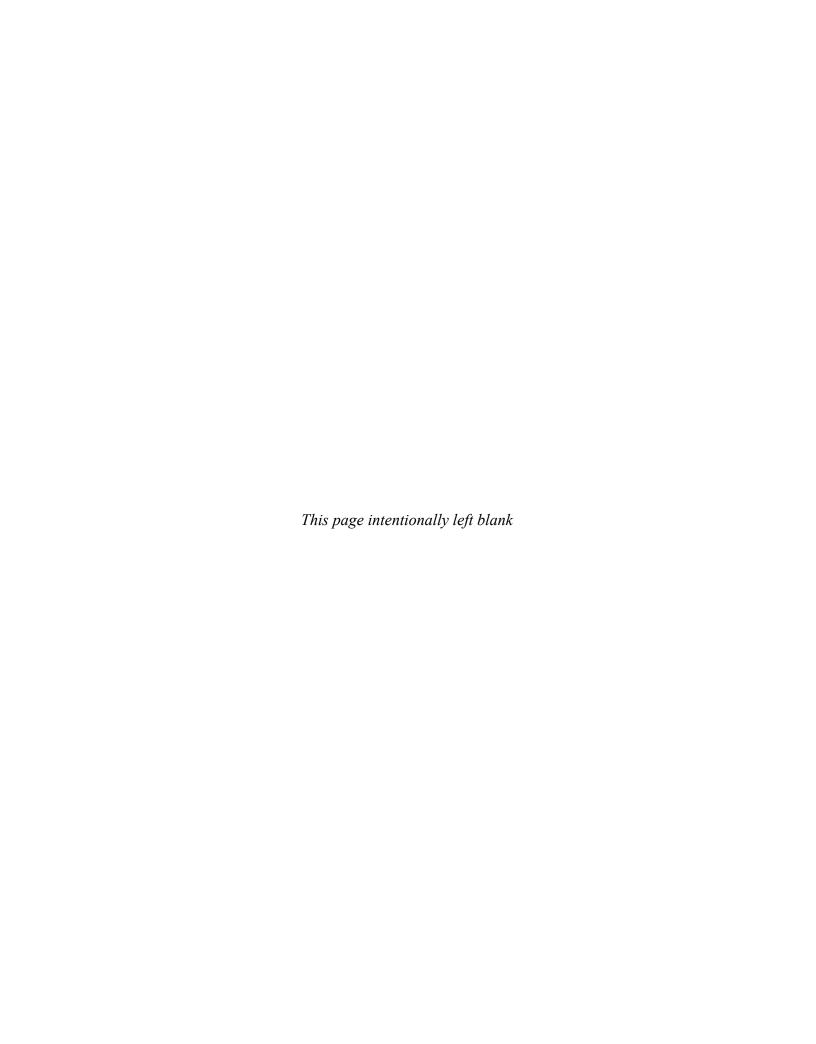
The late Millie Pratt The late Steven Pratt

Members past and present of the ASA Business Valuation Committee

A very bright and dedicated group of professionals

Thank you very much for all your contributions and friendship

Shannon P. Pratt (April 2021)



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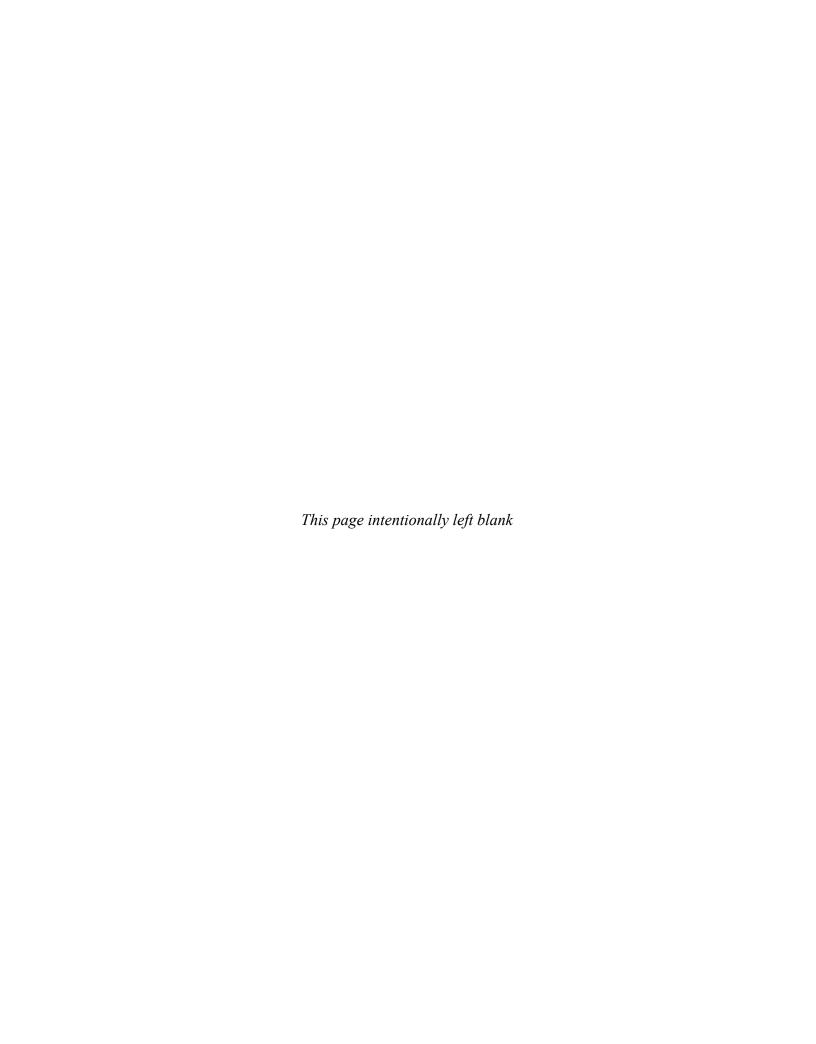
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# About Shannon P. Pratt



Shannon P. Pratt, DBA, CFA, FASA, ARM–BV, MCBA, MCBC, CM&AA, perhaps the most well-known authority in the field of business valuation, has written numerous books that articulate many of the concepts used in modern business valuation around the world.

Over the last 50 years, he performed valuation engagements for many purposes. He testified in a wide variety of federal and state courts across the country and participates in arbitration and mediation proceedings.

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Marissa Pepe Turrell, MBA, M.S., ASA, CVA, co-updated the chapter "Valuing Interests in S Corporations and Other Pass-Through Entities." She is a Director at Marcum LLP, where she is a member of the Valuation, Forensic & Litigation Services group. Ms. Turrell has served on the ASA Business Valuation Education subcommittee.

**Donna J. Walker, FASA, ARM-BV, CFA**, co-updated the chapters "Valuations for Employee Stock Ownership Plans" and "ESOP Court Cases." She is a principal and founding shareholder of Columbia Financial Advisors, Inc. She has been qualified as an expert witness. Ms. Walker was course developer and instructor for the ASA business valuation course on valuing ESOP shares. Ms. Walker was former president of the ASA.

Laurie-Leigh White, ASA, CEIV<sup>™</sup>, IA, CPA/ABV, coauthored the chapter "Valuing Intangible Assets." She is a partner with BVA Group and leads the firm's Houston office. Ms. White co-chairs the firm's transaction advisory committees and also leads the firm's ESOP practice. She was selected as a recipient of the 2020 ASA Rising Stars award and the 2016 AICPA Forensic and Valuation Services Standing Ovation Recognition award and was an honoree in the Houston Business Journal's Women Who Mean Business 2019 class.

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# **Foreword**

Over these many years I have found *Valuing a Business* to be valuable tool in teaching new appraisers the basics of valuation and in teaching attorneys and other stakeholders what business appraisers do.

The primary goal of the sixth edition is to explain business valuation in an easy-to-understand style, focused on the nuances of valuing closely held businesses and interests in those businesses. I think readers will agree that the sixth edition has succeeded in meeting this goal.

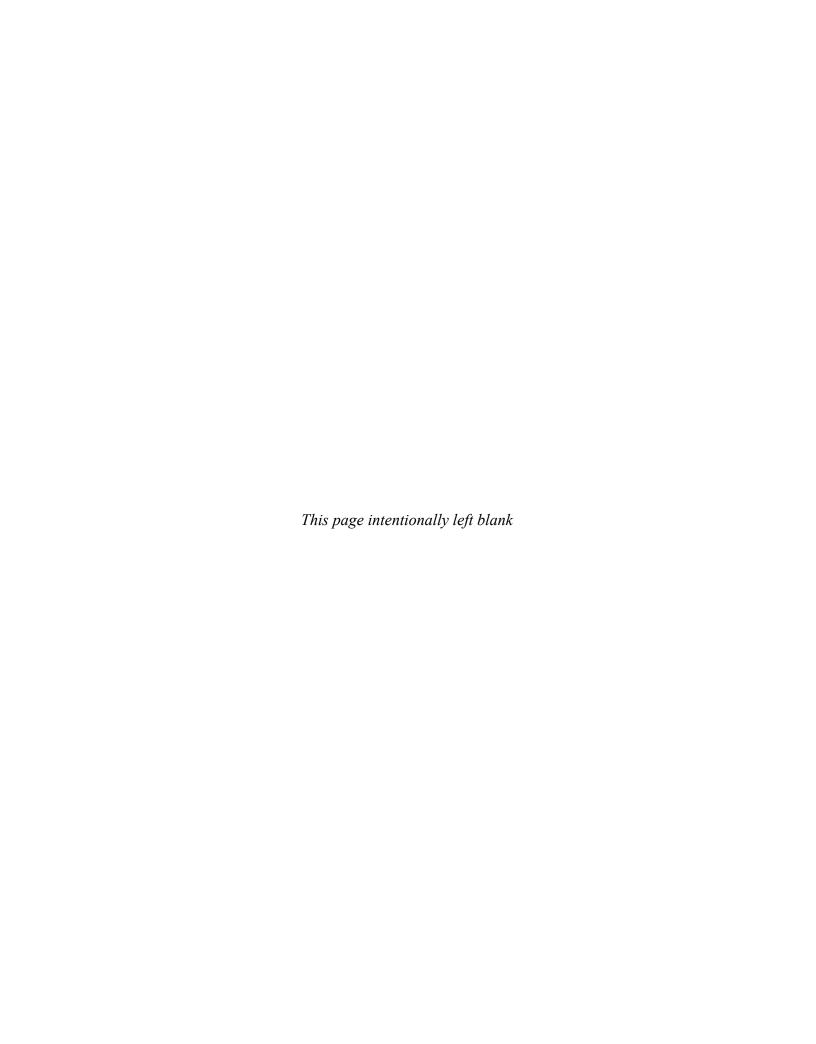
I want to thank each of the contributing authors for sharing their knowledge in bringing their most current thinking to the sixth edition. It has been 12 years since I sat down to update the fifth edition. While some things changed and needed to be updated, the basic valuation methodologies we all learned are still valid.

Readers will benefit from their contributions to the sixth edition. Each of the contributing authors should be proud of the results of the sixth edition as this book is a significant contribution to passing on your expertise in valuation to the next generation of business appraisers. Job well done!

Thank you also to the many reviewers. No book of this magnitude is completed without the efforts of the reviewers to ensure completeness and clarity.

Finally, I want to thank the ASA Educational Foundation for taking the lead in bringing *Valuing a Business* to the ASA. I am pleased that *Valuing a Business* has a long-term "home" with the ASA and that I can pass on my legacy to the ASA. The ASA has been a great home for me and I have made many life-long friends through my involvement with the ASA. Hopefully *Valuing a Business* will enhance the reputation of the ASA for years to come.

Shannon P. Pratt, CFA, FASA, ARM-BV, MCBA, MCBC, CM&AA (April 2021)



## **Preface**

The book is designed to serve three purposes:

- 1. A comprehensive and updated reference for business appraisers
- **2.** An introductory text on business valuation for both academic and accreditation courses and beginning practitioners
- 3. A reference for nonappraisers who use and/or evaluate business appraisals

### Evolution of Valuing a Business

The first edition was published in 1981. It was *the* primary source for educating business appraisers in valuing closely held businesses. Shannon Pratt updated the book four times, the last being the fifth edition in 2008. When Shannon retired, the ASA Educational Foundation stepped up and has taken over maintaining Shannon's legacy for the valuation profession. This sixth edition is the first edition updated with the help of many of the foremost practitioners in business valuation. This group of contributing authors has worked to maintain the style of the book as established by Shannon while updating the content to 2021.

### Evolution and State of the Profession

Since the first edition was published, the profession of business appraisal has matured. There are now widely accepted business valuation standards, where there were none in 1981. Since the fifth edition of this book, the ASA, the CBV Institute, RICS, and TAQEEM have published an international valuation glossary for business valuation, which is reproduced in the online appendix. While each organization's standards or guidelines are slightly different from the others, there is unanimous agreement on the central concepts of business valuation.

The contributing authors have endeavored to present the current state of the art, thinking, and practice of the business valuation profession, which has progressed significantly in many areas since the fifth edition. Where clear consensus on positions exists, such consensus is presented. Where there are differing opinions, they tried to present the issues clearly and fairly, reflecting extensive peer review (see Acknowledgments for a list of reviewers). We also present considerable documentation of various courts' positions on controversial issues.

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## Emphasis on Valuations That Withstand Challenge

Virtually every business valuation is potentially subject to challenge from one party or another—one or more buying or selling parties, taxing authorities, ESOP beneficiaries, a spouse in a divorce, or any of a variety of interested parties. The section on valuations for specific purposes has been greatly expanded and enhanced with new sections and hundreds of court cases detailing which aspects of valuation in various contexts the courts have provided guidance on. These valuation contexts, with extensive discussion of legal challenges and the courts' positions include, especially:

- Gift and estate taxes and charitable contribution issues
- Income tax issues
- Employee stock ownership plans
- Shareholder and partner disputes
- Marital dissolutions.

It is very enlightening to see just what methods, procedures, and data have held up under challenge and what methods, procedures, and data (or omissions in any of these categories) have caused appraisers to be admonished or rebuked by the courts. These insights should help analysts to avoid pitfalls, and should help attorneys, clients, and other users of valuations to critically evaluate valuation work products in light of the legal contexts that may govern the acceptability of these valuations.

## Highlights of What's New in This Edition

This edition reflects the substantial advances in the tools and sophistication in business valuation as well as new appraisal standards and regulations that have evolved since 2008. These advances fall broadly into three categories:

- Increasing consensus among the valuation professional organizations on standards, methodology, and terminology
- Updated appraisal rules, regulations, standards, and guidance issued by governmental, or quasigovernmental, and professional bodies
- Major advances in the quantity, quality, and accessibility of empirical data available to support business valuation conclusions

While there has been a growing consensus regarding business valuation issues, there also has been a growing volume of litigation over business valuations. This edition summarizes the important opinions in gift, estate, charitable contribution, and income tax; shareholder and partner disputes (dissenting stockholder and minority oppression actions); marital dissolutions; and ESOP cases.

Along with the growing body of litigation, there has been a proliferation of business valuation tools in the nature of empirical databases of actual transactions. Regarding the cost of capital, the Kroll (formerly Duff & Phelps) *Risk Premium Report – Size and Risk Studies* continue to gain wider usage and the new chapter on developing discount rates includes new examples. The latest on these and other databases are thoroughly described in this edition. The methodologies of measuring discounts for lack of control and discounts for lack of marketability continue to be refined.

There have also been several Tax Court decisions on the valuation of noncontrolling interests in Subchapter S corporations and other pass-through entities that continue to cause business appraisers to re-evaluate the methodology traditionally

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used. We discuss the criticisms of the court decisions and the ensuing research into alternative models.

Key additions reflecting these developments include:

- Extensive court case analysis and citations, as noted in the previous section
- Updated chapter on business valuation standards
- Updated and expanded checklist, Reviewing a Business Valuation Report
- Up-to-date credentialing standards of all major professional associations, including ASA, AICPA, CBV, NACVA, and RICS
- Expanded chapter on developing discount rates with added examples
- New chapter on forecasting economic income including new data on long-term industry growth rates when using the income approach
- Updated descriptions of online databases that can be used for identifying guideline public companies
- Updated descriptions of transactional databases
- Updated chapter exploring the degrees of control in assessing discounts for lack of control (DLOC) for noncontrolling interests
- Description of new restricted stock studies and databases of restricted stock transactions with new tools for analyzing transactions
- Greatly expanded discussion on new data sources and new tools for quantifying discounts for lack of marketability (DLOM)
- New chapter on valuing intangible assets
- New section on valuing goodwill and going concern value including court citations.
- Updated sample report (see Chapter 23)
- Expanded chapter on reviewing business valuation reports, including the minimum performance requirements for financial reporting
- Expanded chapter on fair value for financial reporting
- New section on valuing private promissory notes
- New chapter on valuing interests in REITs and other real property holding entities
- New chapter on valuing real property with a business component
- The latest court guidance on discounts for trapped-in capital gains and tax-affecting of pass-through entities
- Updated sections on avoiding common errors made in applying the income approach.
- Expanded chapter introducing option pricing theory
- New chapter on valuing complex capital structures, focused on early-stage, venture capital-backed businesses
- Updated list of subsequent event court decisions
- Updated sections on "active versus passive" and "double-dipping" in marital dissolution appraisals
- Updated discussion on enterprise versus personal goodwill in marital dissolution matters
- Expanded and updated discussions of Family Limited Partnerships and their treatment by the IRS and the courts
- Updated discussion on federal income tax issues, including intercompany transfer pricing
- Updated chapter on valuation provisions in buy-sell agreements
- New chapter on fairness opinions
- New chapter on solvency opinions
- Updated International Valuation Glossary—Business Valuation
- New online appendix with additional chapter materials

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 Hundreds of updated data sources and bibliographical references in the new online appendix

Significantly expanded index

## Audiences for Whom the Book Is Designed

The book is designed to be useful not only to business appraisers but also to others dealing with business appraisal issues such as:

- Attorneys dealing with business valuation litigation and/or sales or mergers of business enterprises
- CPAs
- Financial planners
- Bank trust officers dealing with closely held businesses
- Investment bankers
- Business owners, CFOs, and corporate directors

## Business Valuation Continues to Be Dynamic

The momentum of business valuation developments of the past 13 years is sure to continue. Very importantly, the positions of various courts on many business valuation issues continue to evolve. We will reflect these developments in future editions. Please address your comments, observations, and suggestions to us.

### ASA Valuing a Business Coordinating Committee

Ken Pia, Past Chairman of the Business Valuation Committee

Matt Crow, Member at-Large of the Business Valuation Committee

Jay E. Fishman, Past Chairman of the Business Valuation Committee

Roger J. Grabowski, Past Editor of Business Valuation Review®

Jeff Tarbell, Past Chairman of the Business Valuation Committee

Finally, it has been a great pleasure to be the Chair of ASA's Business Valuation Committee as ASA becomes the new home for Shannon's highly regarded valuation treatise. This will ensure the legacy Shannon deserves for many years to come.

Ken Pia (June 2021)

## **Acknowledgments**

As with previous editions, this sixth edition has benefited immeasurably from peer review by a dedicated group of professionals who provided valuable input and assistance.

We wish to thank the following individuals who have reviewed significant portions or all of the manuscript and provided commentary and suggestions for this edition. We believe this volume truly represents a consensus of a broad cross section of the practitioners from all facets of the business valuation community.

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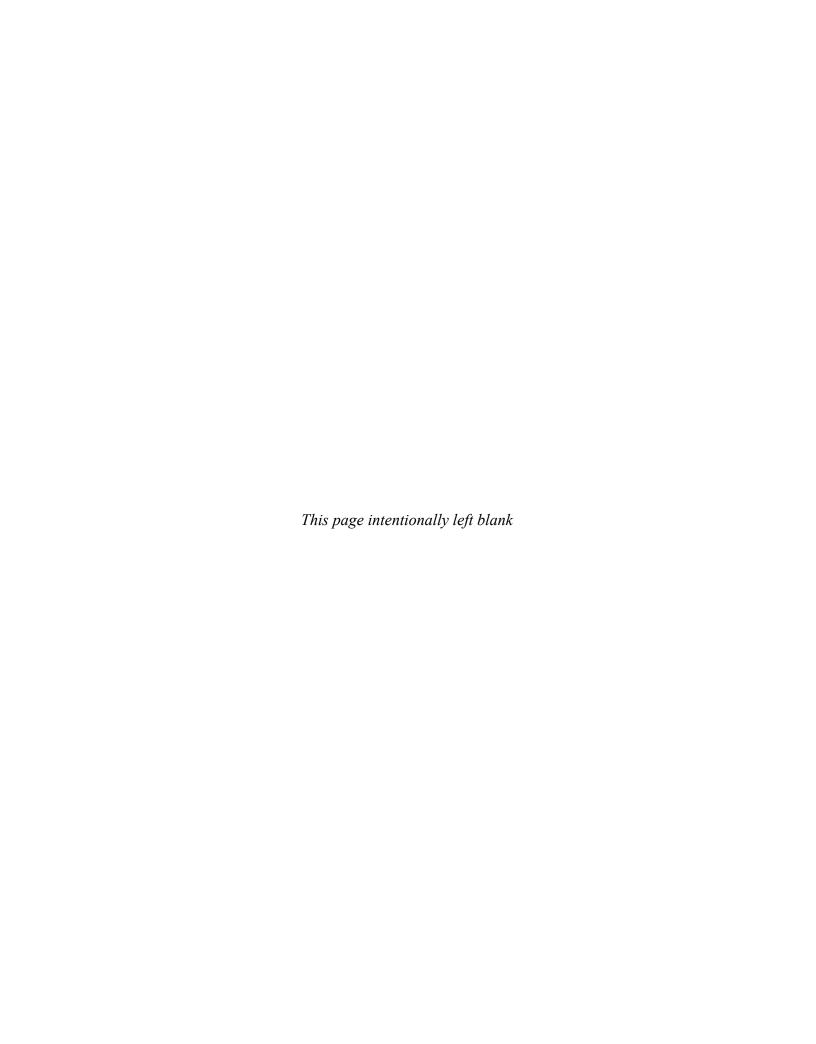
Grant Zindel served as project manager for this edition. This included acting as a liaison and coordinating with the contributing authors, the publisher, and the outside reviewers, assisting with obtaining permission to use material reprinted in this book from other sources, and editing the manuscript. Grant Zindel also assisted in creating the index for this edition. Thanks to his dedication and professionalism, the index is

Acknowledgments xli

comprehensive and user friendly. This book would simply not have been completed without Grant's dedication.

Robert Schweihs and Robert Reilly were coauthors with Shannon Pratt on the third and fourth editions of this book. Much of the material from those editions is carried forward to the fifth edition and this sixth edition. Because they were coauthors and shared both writing and editing functions and much was carried forward from the first and second editions, it is not possible to single out which particular chapters or sections for which they were primarily responsible. Therefore, we make a general acknowledgment of their contributions to the third and fourth editions.

We express our gratitude to all of the people singled out above. As always, final responsibility for all content and judgment rests with the Coordinating Committee.



## Notation System Used in This Book

A source of confusion for those trying to understand financial theory and methods is the fact that financial writers have not adopted a standard system of notation. For this edition, we have studied dozens of financial texts and have developed a system of notation that reflects the most commonly used conventions or ones that seem intuitively easy to understand. If other financial writers adopt this standardized system of notation, we believe it will go a long way toward removing ambiguity, clarifying communication, and making it easier for readers to absorb financial articles and texts.

### Value at a Point in Time

EV = Enterprise Value

PV = Present value

FV = Future value

MVIC = Market value of invested capital

## Cost of Capital and Rate of Return Variables

k = Discount rate (generalized)

 $k_e$  = Discount rate for common equity capital (cost of common equity capital). Unless otherwise stated, it generally is assumed that this discount rate is applicable to common equity

 $k_n$  = Discount rate for preferred equity capital

 $k_d$  = Discount rate for debt (Note: For complex capital structures, there could be more than one class of capital in any of the above categories, requiring expanded subscripts)

 $k_{d(pt)}$  = Cost of debt prior to tax effect

 $k_{ni}$  = Discount rate for equity capital when net income rather than net cash flow is the measure of economic income being discounted

c =Capitalization rate

 $c_{\scriptscriptstyle e}$  = Capitalization rate for common equity capital (cost of common equity capital). Unless otherwise stated, it generally is assumed that this capitalization rate is applicable to net cash flow available to common equity

 $c_{ni}$  = Capitalization rate for net income

 $c_n$  = Capitalization rate for preferred equity capital

 $c_d$  = Capitalization rate for debt (Note: For Complex capital structures, there could be more than one class of capital in any of the previous categories, requiring expanded subscripts)

t = Tax rate (expressed as a percentage of pretax income)

R = Rate of return

 $R_f$  = Rate of return on a risk-free security

 $R_i$  = Historical return for publicly traded stock i

 $R_{m}$  = Historical return on market portfolio m

 $E_{(R)}$  = Expected rate of return

 $E_{(Rm)} = E(R_{marker})$  = Expected rate of return on the "market" (usually used in the context of a market for equity securities, such as the NYSE or S&P 500)

 $E_{(Ri)}$  = Expected rate of return on security i

B = Beta (a coefficient, usually used to modify a rate of return variable)

 $B_r$  = Levered beta

 $B_{ij}$  = Unlevered beta

RP = Risk premium

 $RP_m = RP_{market}$  = Equity risk premium for the "market" (usually used in the context of a market for equity securities, such as the NYSE or S&P 500)

 $RP_s = RP_{size}$  = Risk premium for "small" company stocks (e.g., average size of lowest quartile of NYSE as measured by market value of common equity) over and above  $RP_m$ , typically drawn from Risk Premium Report – Size Study or CRSP Decile Size Study

 $RP_u = RP_{CSR} =$ Risk premium for unsystematic risk attributable to the specific company (i.e., company-specific risk premium)

 $RP_i = RP_{ind} =$ Risk premium for the industry

 $RP_{m+s(levered)}$  = Risk premium for the market plus size using data from Risk Premium Report – Size Study portfolios in build-up method

WACC = Weighted average cost of capital

### **Income Variables**

*E* = Expected economic income (in a generalized sense; i.e., could be dividends, any of several possible definitions of cash flows, net income, and so on)

NI = Net income (after entity-level taxes)

 $NCF_{e}$  = Net cash flow to equity

 $NCF_f$  = Net cash flow to the firm (to overall invested capital, or entire capital structure, including all equity and long-term debt)

PMT = Payment (interest and principal payment on debt security)

D = Dividends

GCF = Gross cash flow (usually net income plus noncash charges)

EBIT = Earnings before interest and taxes

EBITDA = Earnings before interest, and taxes, depreciation, and amortization

### Periods or Variables in a Series

- *i* = The *i*th period or the *i*th variable in a series (may be extended to the *j*th variable, the *k*th variable, and so on)
- n = The number of periods or variables in the series, or the last number in the series
- $\infty$  = Infinity
- <sub>o</sub> = Period<sub>o</sub>, the base period, usually the latest year immediately preceding the valuation date

## Weightings

W = Weight

 $W_{\rho}$  = Weight of common equity in capital structure

 $W_{p}$  = Weight of preferred equity in capital structure

 $W_{d}$  = Weight of debt in capital structure

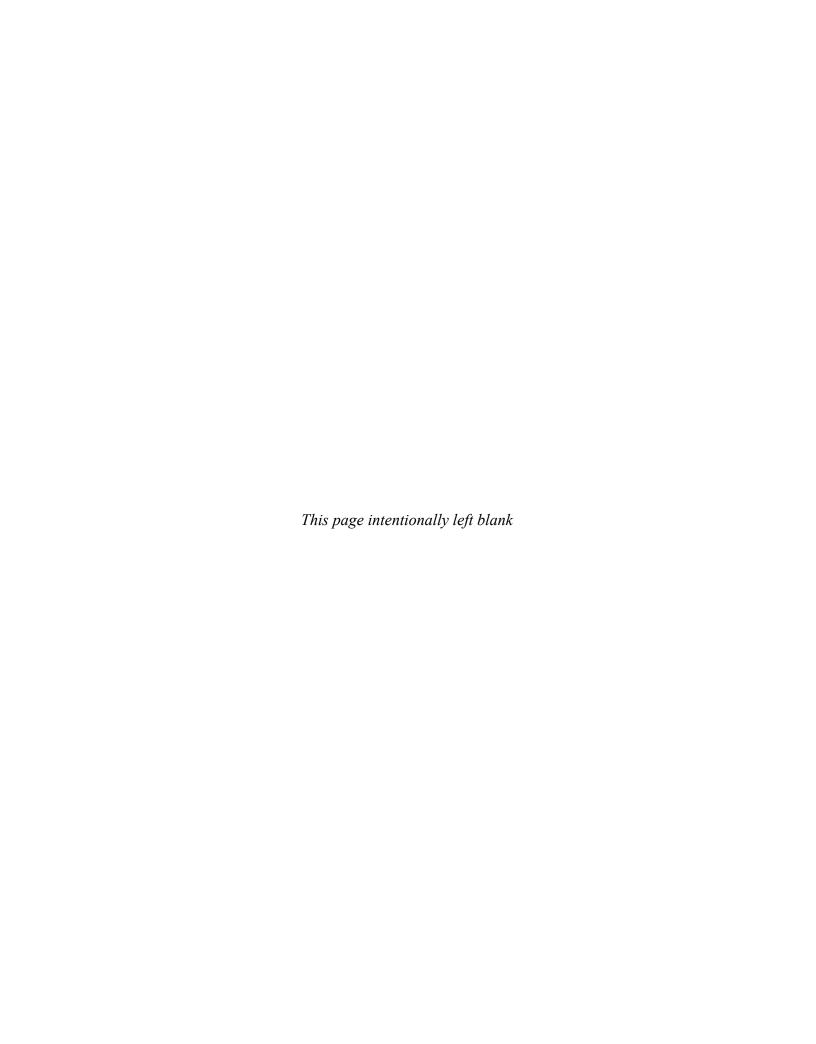
Note: For purposes of computing a weighted average cost of capital (WACC), it is assumed that above weightings are at market value.

### Growth

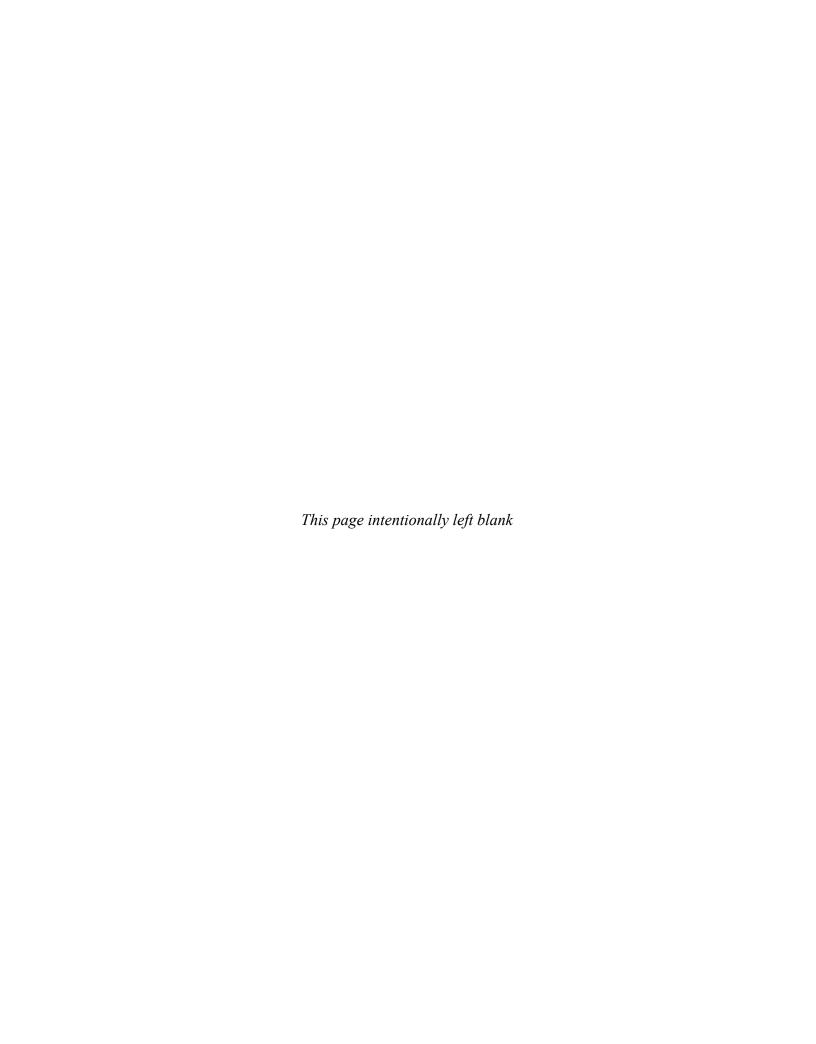
g = Rate of growth

### **Mathematical Functions**

- $\Sigma$  = Sum of (add up all the variables that follow)
- $\pi$  = Product of (multiply together all the variables that follow)
- $\overline{x}$  = Mean average (the sum of the values of the variables divided by the number of variables)
- G = Geometric mean (the product of the values of the variables taken to the root of the number of variables)



## STATE OF THE PROFESSION, THE ENGAGEMENT, AND THE BASIC THEORY



## **CHAPTER 1**

# Business Valuation Standards and Credentials

### Introduction

### The Appraisal Foundation

Background and Organization

### Uniform Standards of Professional Appraisal Practice (USPAP)

- Business Valuation Guidance from TAF
- Standards Published by Business Valuation Professional Organizations

### Other Organizations That Have Offered Guidance on Business Valuation Issues

- Internal Revenue Service
- Certified in Entity and Intangible Valuation
- CFA Institute
- Association of Insolvency & Restructuring Advisors
- Recognition of Professional Standards by Courts
- International Valuation Standards and Practices
- Royal Institution of Chartered Surveyors
- International Institute of Business Valuers
- International Association of Certified Valuation Specialists

### Professional Organizations Offering Accreditation in Business Valuation

- ASA
- National Association of Certified Valuation Analysts
- · American Institute of Certified Public Accountants
- CBV Institute
- · Royal Institution of Chartered Surveyors

### Summary

### Appendix to Chapter 1 online at www.appraisers.org/VAB6

- Information about ASA, NACVA, AICPA/ABV, CBV Institute, and RICS
- International Valuation Glossary—Business Valuation
- ASA Business Valuation Standards
- Bibliography

## Introduction

Consensus regarding business appraisal<sup>1</sup> professional standards, as noted in the fifth edition, has continued to grow, accompanied by a proliferation of business valuation professional education.

It is important that all those either providing or using business valuation services be aware of these standards. The days when there was virtually no generally accepted guidance and almost anything could pass as a credible business valuation are gone forever. Owners, investors, attorneys, government agencies, and the courts all demand that business valuation work live up to these higher standards.

This chapter provides the reader a road map to business valuation professional standards, as they exist as of this writing. It also gives the reader the sources to get complete copies of current standards and to keep up to date as they evolve. The chapter also catalogs the current state of business valuation professional credentials.

Business valuation standards are often updated on a periodic basis. Readers can keep up to date on the changes through various monthly or quarterly periodicals including *Business Valuation Review*, *CPA Experts*, *The Value Examiner*, *Business Valuation Update*, *Hardball with Hitchner*, and other professional journals. Information on each of these journals is provided in the bibliography, which is contained in the online appendix.

## The Appraisal Foundation

## **Background and Organization**

The Appraisal Foundation (TAF) was established in 1987 by nine appraisal organizations constituting the North American Council of Appraisal Organizations (NACAO) and six nonappraiser members, including the American Bankers Association and the U.S. League of Savings Institutions. Eight of the nine appraisal organizations were composed entirely of real estate appraisers. One, the ASA (American Society of Appraisers), is multidisciplinary. The ASA awards certifications in real estate appraisal, machinery and equipment appraisal, personal property appraisal, business valuation, and technical valuation.

The board of trustees of TAF consists of representatives of the sponsor organizations plus trustees-at-large. The board of trustees appoints individuals who comprise two independent boards:

- **1.** The **Appraisal Standards Board** (ASB) promulgates the *Uniform Standards of Professional Appraisal Practice* (USPAP) (see next section).
- 2. The Appraisal Qualifications Board (AQB) promulgates appraiser qualifications. So far, it has done so only for real estate appraisers and personal property appraisers. As of this writing, the AQB has left the issue of business appraiser qualifications to the various professional credentialing organizations, discussed in a subsequent section.

<sup>&</sup>lt;sup>1</sup> Throughout this text the words appraisal and valuation will be used interchangeably.

## Uniform Standards of Professional Appraisal Practice (USPAP)

In order to maintain public trust in appraisal practice, the ASB issues USPAP, which establishes requirement for appraisers. USPAP is designed to ensure that appraisers will develop and communicate their analyses, opinions, and conclusions to intended users of their services in a manner that is meaningful and not misleading.<sup>2</sup> The Financial Institution Reform, Recovery, and Enforcement Act (FIRREA) of 1989 makes compliance with USPAP mandatory for all federally related commercial real property transactions having a transaction value of more than \$500,000. Although not mandatory for federally related transactions involving personal property and business appraisals, USPAP has been adopted by several appraisal organizations in North America and has been recognized as emblematic as a generally accepted multidiscipline standard of appraisal practice. Although TAF's ASB writes, amends, and interprets USPAP, the board does not enforce USPAP. Through FIRREA, the federal government has mandated that the states enforce USPAP compliance for real estate appraisers. Standards are included for real property, personal property, business, and mass appraisals.

The content of USPAP is summarized in Exhibit 1–1. The 2020–2021 edition of USPAP was adopted with an effective date of January 1, 2020. USPAP is typically on a two-year publication cycle. However, considering the dislocation due to the pandemic, on February 19, 2021, the ASB announced that the 2020–2021 USPAP will be extended to December 31, 2022 (www.Appraisalfoundation.org).

### Business Valuation Guidance from TAF

Beginning in 2010, TAF has also published several Valuation Advisories relating to Valuation for Financial Reporting (VFR). These VFRs provide guidance as to best practices for financial reporting. To date, TAF has issued four such VFRs:

- VFR-1 Identification of Contributory Asset and Calculation of Economic Rents
- VFR–2 Valuation of Customer-Related Assets
- VFR-3 The Measurement and Application of Market Participant Acquisition Premiums
- VFR-4 Valuation of Contingent Consideration

These VFRs can be found on TAF's website.

In addition, in 2014 TAF started a Business Valuation Resource Panel (BVRP). The purpose of the BVRP is to provide TAF's board of trustees with ongoing communication with representatives of the business valuation profession and to provide insight and recommendations on relevant business valuation issues.

<sup>&</sup>lt;sup>2</sup> USPAP Preamble.

### Exhibit 1-1

### **Uniform Standards of Professional Appraisal Practice**

Forward		Standards and Standards Rules			
Table of Contents		Standard 1:	Real Property Appraisal, Development		al, Development
Preamble		Standard 2:	Real Property Appraisal, Reporting		
Definitions		Standard 3:	Appraisal Review, Development		
Ethics Rule		Standard 4:	Appraisal Review, Reporting		
Record Keeping Rule		Standard 5:	Mass Appraisal, Development		
Competency Rule		Standard 6:	Mass Appraisal, Reporting		
Scope of Work Rule		Standard 7:	Personal Property Appraisal, Development		
-					
Jurisdictional Exception Rule		Standard 8:	Personal Property Appraisal, Reporting		
		Standard 9:	Business Appraisal, Development		
Standard 10: Business Appraisal, Reporting					
Advisory Opinions					
AO-1	Sales History (RP)				Normal Course of Business (RP, PP)
AO-2				AO-25	Clarification of the Client in a Federally Related
				10.26	Transaction (RP)
AO-7 Marketing Time Opinions (RP, PP) AO-9 The Appraisal of Real Property That May Be		/ Be	AO-20	Readdressing (Transferring) a Report to Another Party (ALL)	
Impacted by Environmental Contain				AO-27	Appraising the Same Property for a New Client (ALL)
AO-13 Performing Evaluations of Real Prope			( )		Scope of Work Decision, Performance, and Disclosure
Collateral to Conform with I					(ALL)
AO-14					An Acceptable Scope of Work (ALL)
AO-16	Fair Housing Laws and Appraisal Report Content (RP)			AO-30	Appraisals for Use by a Federally Regulated Financial Institution (RP)
AO-17 Appraisals of Real Property with Proposed		ed	AO-31	Assignments Involving More Than One Appraiser	
Improvements (RP)					(ALL)
AO-18 Use of an Automated Valuation Model (AVM)		VM)	AO-32	Ad Valorem Property Tax Appraisal and Mass	
(ALL) AO-19 Unacceptable Assignment Condition		Conditions in I	Danl	۸0 33	Appraisal Assignments (RP, PP) Discounted Cash Flow Analysis (RP)
Property Appraisal Assignments (RP)			Xeai		Retrospective and Prospective Value Opinions
AO-20 An Appraisal Review Assignment That Include		ncludes	710 31	(RP, PP)	
the Reviewer's Own Opinion of Value (ALI			AO-35	Reasonable Exposure Time in Real and Personal	
AO-21 USPAP Compliance (ALL)					Property Opinions of Value (RP, PP)
AO-22 Scope of Work in Market Value Appraisal			1	AO-36	Identification and Disclosure of Client, Intended Use,
Assignments, Real Property (					and Intended Users (ALL)
AO-23 Identifying the Relevant Char					Computer Assisted Valuation Tools (RP)
	Subject Property of a Real Assignment (RP)	Property Appr	aisai	AU-38	Content of an Appraisal Report and Restricted Appraisal Report (RP, PP, IP)
	Assignment (KF)				Appraisar Report (RF, FF, IF)

Note: AOs do not hold the same weight as standards. Statements 1-10 on Appraisal Standards have been retired. ALL = All disciplines, PP = personal property, RP = real property, IP = intangible property.

Source: *Uniform Standards of Professional Appraisal Practice* 2020–2021 ed. (Washington, DC: The Appraisal Foundation, 2020). Reprinted with permission.