

VOTED #1 ACADEMIC BOOK THAT SHAPED MODERN BRITAIN

THE
GENERAL
THEORY

Introduction by | OF | *Paul Krugman*

EMPLOYMENT,
INTEREST

Afterword by | AND | *Robert Skidelsky*

MONEY

JOHN MAYNARD KEYNES



The General Theory of Employment, Interest, and Money

John Maynard Keynes

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Preface

This book is chiefly addressed to my fellow economists. I hope that it will be intelligible to others. But its main purpose is to deal with difficult questions of theory, and only in the second place with the applications of this theory to practice. For if orthodox economics is at fault, the error is to be found not in the superstructure, which has been erected with great care for logical consistency, but in a lack of clearness and of generality in the premisses. Thus I cannot achieve my object of persuading economists to re-examine critically certain of their basic assumptions except by a highly abstract argument and also by much controversy. I wish there could have been less of the latter. But I have thought it important, not only to explain my own point of view, but also to show in what respects it departs from the prevailing theory. Those, who are strongly wedded to what I shall call 'the classical theory', will fluctuate, I expect, between a belief that I am quite wrong and a belief that I am saying nothing new. It is for others to determine if either of these or the third alternative is right. My controversial passages are aimed at providing some material for an answer; and I must ask forgiveness if, in the pursuit of sharp distinctions, my controversy is itself too keen. I myself held with conviction for many years the theories which I now attack, and I am not, I think, ignorant of their strong points.

The matters at issue are of an importance which cannot be exaggerated. But, if my explanations are right, it is my fellow economists, not the

general public, whom I must first convince. At this stage of the argument the general public, though welcome at the debate, are only eavesdroppers at an attempt by an economist to bring to an issue the deep divergences of opinion between fellow economists which have for the time being almost destroyed the practical influence of economic theory, and will, until they are resolved, continue to do so.

The relation between this book and my *Treatise on Money* [JMK vols. v and vi], which I published five years ago, is probably clearer to myself than it will be to others; and what in my own mind is a natural evolution in a line of thought which I have been pursuing for several years, may sometimes strike the reader as a confusing change of view. This difficulty is not made less by certain changes in terminology which I have felt compelled to make. These changes of language I have pointed out in the course of the following pages; but the general relationship between the two books can be expressed briefly as follows. When I began to write my *Treatise on Money* I was still moving along the traditional lines of regarding the influence of money as something so to speak separate from the general theory of supply and demand. When I finished it, I had made some progress towards pushing monetary theory back to becoming a theory of output as a whole. But my lack of emancipation from preconceived ideas showed itself in what now seems to me to be the outstanding fault of the theoretical parts of that work (namely, Books III and IV), that I failed to deal thoroughly with the effects of *changes* in the level of output. My so-called 'fundamental equations' were an instantaneous picture taken on the assumption of a given output. They attempted to show how, assuming the given output, forces could develop which involved a profit-disequilibrium, and thus required a change in the level of output. But the dynamic development, as distinct from the instantaneous picture, was left incomplete and extremely confused. This book, on the other hand, has evolved into what is primarily a study of the forces which determine changes in the scale of output and employment as a whole; and, whilst it is found that money enters into the economic scheme in an essential and peculiar manner, technical monetary detail falls into the background. A monetary economy, we shall find, is essentially one in which changing views about the future are capable of influencing the quantity of employment and not merely its direction. But our method of analysing the

economic behaviour of the present under the influence of changing ideas about the future is one which depends on the interaction of supply and demand, and is in this way linked up with our fundamental theory of value. We are thus led to a more general theory, which includes the classical theory with which we are familiar, as a special case.

The writer of a book such as this, treading along unfamiliar paths, is extremely dependent on criticism and conversation if he is to avoid an undue proportion of mistakes. It is astonishing what foolish things one can temporarily believe if one thinks too long alone, particularly in economics (along with the other moral sciences), where it is often impossible to bring one's ideas to a conclusive test either formal or experimental. In this book, even more perhaps than in writing my *Treatise on Money*, I have depended on the constant advice and constructive criticism of Mr R. F. Kahn. There is a great deal in this book which would not have taken the shape it has except at his suggestion. I have also had much help from Mrs Joan Robinson, Mr R. G. Hawtrey and Mr R. F. Harrod, who have read the whole of the proof-sheets. The index has been compiled by Mr D. M. Bensusan-Butt of King's College, Cambridge.

The composition of this book has been for the author a long struggle of escape, and so must the reading of it be for most readers if the author's assault upon them is to be successful,—a struggle of escape from habitual modes of thought and expression. The ideas which are here expressed so laboriously are extremely simple and should be obvious. The difficulty lies, not in the new ideas, but in escaping from the old ones, which ramify, for those brought up as most of us have been, into every corner of our minds.

13 December 1935

J. M. Keynes

Preface to the German Edition

Alfred Marshall, on whose *Principles of Economics* all contemporary English economists have been brought up, was at particular pains to emphasise the continuity of his thought with Ricardo's. His work largely consisted in grafting the marginal principle and the principle of substitution on to the Ricardian tradition; and his theory of output and consumption as a whole, as distinct from his theory of the production and distribution of a *given* output, was never separately expounded. Whether he himself felt the need of such a theory, I am not sure. But his immediate successors and followers have certainly dispensed with it and have not, apparently, felt the lack of it. It was in this atmosphere that I was brought up. I taught these doctrines myself and it is only within the last decade that I have been conscious of their insufficiency. In my own thought and development, therefore, this book represents a reaction, a transition away from the English classical (or orthodox) tradition. My emphasis upon this in the following pages and upon the points of my divergence from received doctrine has been regarded in some quarters in England as unduly controversial. But how can one brought up a Catholic in English economics, indeed a priest of that faith, avoid some controversial emphasis, when he first becomes a Protestant?

But I fancy that all this may impress German readers somewhat differently. The orthodox tradition, which ruled in nineteenth century England, never took so firm a hold of German thought. There have always existed

important schools of economists in Germany who have strongly disputed the adequacy of the classical theory for the analysis of contemporary events. The Manchester School and Marxism both derive ultimately from Ricardo,—a conclusion which is only superficially surprising. But in Germany there has always existed a large section of opinion which has adhered neither to the one nor to the other.

It can scarcely be claimed, however, that this school of thought has erected a rival theoretical construction; or has even attempted to do so. It has been sceptical, realistic, content with historical and empirical methods and results, which discard formal analysis. The most important unorthodox discussion on theoretical lines was that of Wicksell. His books were available in German (as they were not, until lately, in English); indeed one of the most important of them was written in German. But his followers were chiefly Swedes and Austrians, the latter of whom combined his ideas with specifically Austrian theory so as to bring them in effect, back again towards the classical tradition. Thus Germany, quite contrary to her habit in most of the sciences, has been content for a whole century to do without any formal theory of economics which was predominant and generally accepted.

Perhaps, therefore, I may expect less resistance from German, than from English, readers in offering a theory of employment and output as a whole, which departs in important respects from the orthodox tradition. But can I hope to overcome Germany's economic agnosticism? Can I persuade German economists that methods of formal analysis have something important to contribute to the interpretation of contemporary events and to the moulding of contemporary policy? After all, it is German to like a theory. How hungry and thirsty German economists must feel after having lived all these years without one! Certainly, it is worth while for me to make the attempt. And if I can contribute some stray morsels towards the preparation by German economists of a full repast of theory designed to meet specifically German conditions, I shall be content. For I confess that much of the following book is illustrated and expounded mainly with reference to the conditions existing in the Anglo-Saxon countries.

Nevertheless the theory of output as a whole, which is what the following book purports to provide, is much more easily adapted to the conditions of a totalitarian state, than is the theory of the production and distribution of a given output produced under conditions of free competition and a large measure of laissez-faire. The theory of the psychological laws relating consumption and saving, the influence of loan expenditure on prices and real wages, the part played by the rate of interest—these remain as necessary ingredients in our scheme of thought.

I take this opportunity to acknowledge my indebtedness to the excellent work of my translator Herr Waeger (I hope his vocabulary at the end of this volume¹ may prove useful beyond its immediate purpose) and to my publishers, Messrs Duncker and Humblot, whose enterprise, from the days now sixteen years ago when they published my *Economic Consequences of the Peace*, has enabled me to maintain contact with German readers.

7 September 1936

J. M. Keynes

¹ Not printed in this edition [Ed.].

Preface to the Japanese Edition

Alfred Marshall, on whose *Principles of Economics* all contemporary English economists have been brought up, was at particular pains to emphasise the continuity of his thought with Ricardo's. His work largely consisted in grafting the marginal principle and the principle of substitution on to the Ricardian tradition; and his theory of output and consumption as a whole, as distinct from his theory of the production and distribution of a *given* output, was never separately expounded. Whether he himself felt the need of such a theory, I am not sure. But his immediate successors and followers have certainly dispensed with it and have not, apparently, felt the lack of it. It was in this atmosphere that I was brought up. I taught these doctrines myself and it is only within the last decade that I have been conscious of their insufficiency. In my own thought and development, therefore, this book represents a reaction, a transition away from the English classical (or orthodox) tradition. My emphasis upon this in the following pages and upon the points of my divergence from received doctrine has been regarded in some quarters in England as unduly controversial. But how can one brought up in English economic orthodoxy, indeed a priest of that faith at one time, avoid some controversial emphasis, when he first becomes a Protestant?

Perhaps Japanese readers, however, will neither require nor resist my assaults against the English tradition. We are well aware of the large scale on which English economic writings are read in Japan, but we are not so

well informed as to how Japanese opinions regard them. The recent praiseworthy enterprise on the part of the International Economic Circle of Tokyo in reprinting Malthus's 'Principles of Political Economy' as the first volume in the Tokyo Series of Reprints encourages me to think that a book which traces its descent from Malthus rather than Ricardo may be received with sympathy in some quarters at least.

At any rate I am grateful to the *Oriental Economist* for making it possible for me to approach Japanese readers without the extra handicap of a foreign language.

4 December 1936

J. M. Keynes

Preface to the French Edition

For a hundred years or longer English Political Economy has been dominated by an orthodoxy. That is not to say that an unchanging doctrine has prevailed. On the contrary. There has been a progressive evolution of the doctrine. But its presuppositions, its atmosphere, its method have remained surprisingly the same, and a remarkable continuity has been observable through all the changes. In that orthodoxy, in that continuous transition, I was brought up. I learnt it, I taught it, I wrote it. To those looking from outside I probably still belong to it. Subsequent historians of doctrine will regard this book as in essentially the same tradition. But I myself in writing it, and in other recent work which has led up to it, have felt myself to be breaking away from this orthodoxy, to be in strong reaction against it, to be escaping from something, to be gaining an emancipation. And this state of mind on my part is the explanation of certain faults in the book, in particular its controversial note in some passages, and its air of being addressed too much to the holders of a particular point of view and too little *ad urbem et orbem*. I was wanting to convince my own environment and did not address myself with sufficient directness to outside opinion. Now three years later, having grown accustomed to my new skin and having almost forgotten the smell of my old one, I should, if I were writing afresh, endeavour to free myself from this fault and state my own position in a more clear-cut manner.

I say all this, partly to explain and partly to excuse, myself to French readers. For in France there has been no orthodox tradition with the same authority over contemporary opinion as in my own country. In the United States the position has been much the same as in England. But in France, as in the rest of Europe, there has been no such dominant school since the expiry of the school of French Liberal economists who were in their prime twenty years ago (though they lived to so great an age, long after their influence had passed away, that it fell to my duty, when I first became a youthful editor of the *Economic Journal* to write the obituaries of many of them—Levasseur, Molinari, Leroy-Beaulieu). If Charles Gide had attained to the same influence and authority as Alfred Marshall, your position would have borne more resemblance to ours. As it is, your economists are eclectic, too much (we sometimes think) without deep roots in systematic thought. Perhaps this may make them more easily accessible to what I have to say. But it may also have the result that my readers will sometimes wonder what I am talking about when I speak, with what some of my English critics consider a misuse of language, of the ‘classical’ school of thought and ‘classical’ economists. It may, therefore, be helpful to my French readers if I attempt to indicate very briefly what I regard as the main *differentiae* of my approach.

I have called my theory a *general* theory. I mean by this that I am chiefly concerned with the behaviour of the economic system as a whole,—with aggregate incomes, aggregate profits, aggregate output, aggregate employment, aggregate investment, aggregate saving rather than with the incomes, profits, output, employment, investment and saving of particular industries, firms or individuals. And I argue that important mistakes have been made through extending to the system as a whole conclusions which have been correctly arrived at in respect of a part of it taken in isolation.

Let me give examples of what I mean. My contention that for the system as a whole the amount of income which is saved, in the sense that it is not spent on current consumption, is and must necessarily be exactly equal to the amount of net new investment has been considered a paradox and has been the occasion of widespread controversy. The explanation of this is undoubtedly to be found in the fact that this relationship of equality between saving and investment, which necessarily holds good

for the system as a whole, does not hold good at all for a particular individual. There is no reason whatever why the new investment for which I am responsible should bear any relation whatever to the amount of my own savings. Quite legitimately we regard an individual's income as independent of what he himself consumes and invests. But this, I have to point out, should not have led us to overlook the fact that the demand arising out of the consumption and investment of one individual is the source of the incomes of other individuals, so that incomes in general are not independent, quite the contrary, of the disposition of individuals to spend and invest; and since in turn the readiness of individuals to spend and invest depends on their incomes, a relationship is set up between aggregate savings and aggregate investment which can be very easily shown, beyond any possibility of reasonable dispute, to be one of exact and necessary equality. Rightly regarded this is a banale conclusion. But it sets in motion a train of thought from which more substantial matters follow. It is shown that, generally speaking, the actual level of output and employment depends, not on the capacity to produce or on the pre-existing level of incomes, but on the current decisions to produce which depend in turn on current decisions to invest and on present expectations of current and prospective consumption. Moreover, as soon as we know the propensity to consume and to save (as I call it), that is to say the result for the community as a whole of the individual psychological inclinations as to how to dispose of given incomes, we can calculate what level of incomes, and therefore what level of output and employment, is in profit-equilibrium with a given level of new investment; out of which develops the doctrine of the Multiplier. Or again, it becomes evident that an increased propensity to save will *ceteris paribus* contract incomes and output; whilst an increased inducement to invest will expand them. We are thus able to analyse the factors which determine the income and output of the system as a whole;—we have, in the most exact sense, a theory of employment. Conclusions emerge from this reasoning which are particularly relevant to the problems of public finance and public policy generally and of the trade cycle.

Another feature, specially characteristic of this book, is the theory of the rate of interest. In recent times it has been held by many economists that the rate of current saving determined the supply of free capital, that

the rate of current investment governed the demand for it, and that the rate of interest was, so to speak, the equilibrating price-factor determined by the point of intersection of the supply curve of savings and the demand curve of investment. But if aggregate saving is necessarily and in all circumstances exactly equal to aggregate investment, it is evident that this explanation collapses. We have to search elsewhere for the solution. I find it in the idea that it is the function of the rate of interest to preserve equilibrium, not between the demand and the supply of new capital goods, but between the demand and the supply of money, that is to say between the demand for *liquidity* and the means of satisfying this demand. I am here returning to the doctrine of the older, pre-nineteenth century economists. Montesquieu, for example, saw this truth with considerable clarity,¹—Montesquieu who was the real French equivalent of Adam Smith, the greatest of your economists, head and shoulders above the physiocrats in penetration, clear-headedness and good sense (which are the qualities an economist should have). But I must leave it to the text of this book to show how in detail all this works out.

I have called this book the *General Theory of Employment, Interest and Money*; and the third feature to which I may call attention is the treatment of money and prices. The following analysis registers my final escape from the confusions of the Quantity Theory, which once entangled me. I regard the price level as a whole as being determined in precisely the same way as individual prices; that is to say, under the influence of supply and demand. Technical conditions, the level of wages, the extent of unused capacity of plant and labour, and the state of markets and competition determine the supply conditions of individual products and of products as a whole. The decisions of entrepreneurs, which provide the incomes of individual producers and the decisions of those individuals as to the disposition of such incomes determine the demand conditions. And prices—both individual prices and the price-level—emerge as the resultant of these two factors. Money, and the quantity of money, are not direct influences at this stage of the proceedings. They have done their work at an earlier stage of the analysis. The quantity of money determines the supply

¹ I have particularly in mind Book xxii, chap. 19 of *L'Esprit des lois*.

of liquid resources, and hence the rate of interest, and in conjunction with other factors (particularly that of confidence) the inducement to invest, which in turn fixes the equilibrium level of incomes, output and employment and (at each stage in conjunction with other factors) the price-level as a whole through the influences of supply and demand thus established.

I believe that economics everywhere up to recent times has been dominated, much more than has been understood, by the doctrines associated with the name of J.-B. Say. It is true that his 'law of markets' has been long abandoned by most economists; but they have not extricated themselves from his basic assumptions and particularly from his fallacy that demand is created by supply. Say was implicitly assuming that the economic system was always operating up to its full capacity, so that a new activity was always in substitution for, and never in addition to, some other activity. Nearly all subsequent economic theory has depended on, in the sense that it has required, this same assumption. Yet a theory so based is clearly incompetent to tackle the problems of unemployment and of the trade cycle. Perhaps I can best express to French readers what I claim for this book by saying that in the theory of production it is a final break-away from the doctrines of J.-B. Say and that in the theory of interest it is a return to the doctrines of Montesquieu.

King's College
Cambridge, UK
20 February 1939

J. M. Keynes

Contents

Preface by John Maynard Keynes	v
Preface to the German Edition	ix
Preface to the Japanese Edition	xiii
Preface to the French Edition	xv
Introduction by Paul Krugman	xxv
 Book I Introduction	 1
1 The General Theory	3
2 The Postulates of the Classical Economics	5

3	The Principle of Effective Demand	21
Book II Definitions and Ideas		31
4	The Choice of Units	33
5	Expectation as Determining Output and Employment	41
6	The Definition of Income, Saving and Investment	47
	<i>Appendix on User Cost</i>	58
7	The Meaning of Saving and Investment Further Considered	67
Book III The Propensity to Consume		77
8	The Propensity to Consume: I. The Objective Factors	79
9	The Propensity to Consume: II. The Subjective Factors	95
10	The Marginal Propensity to Consume and the Multiplier	101
Book IV The Inducement to Invest		117
11	The Marginal Efficiency of Capital	119
12	The State of Long-Term Expectation	129

	Contents	xxiii
13	The General Theory of the Rate of Interest	145
14	The Classical Theory of the Rate of Interest	155
	<i>Appendix on the Rate of Interest in Marshall's Principles of Economics, Ricardo's Principles of Political Economy, and elsewhere</i>	163
15	The Psychological and Business Incentives to Liquidity	171
16	Sundry Observations on the Nature of Capital	185
17	The Essential Properties of Interest and Money	195
18	The General Theory of Employment Re-Stated	215
	Book V Money-wages and Prices	225
19	Changes in Money-wages	227
	<i>Appendix on Prof. Pigou's Theory of Unemployment</i>	239
20	The Employment Function	249
21	The Theory of Prices	261
	Book VI Short Notes Suggested by the General Theory	277
22	Notes on the Trade Cycle	279
23	Notes on Mercantilism, The Usury Laws, Stamped Money and Theories Of Under-Consumption	297

24	Concluding Notes on the Social Philosophy Towards which the General Theory Might Lead	331
	<i>Appendix 1. Printing Errors in the First Edition</i>	341
	<i>Appendix 2. Fluctuations in Net Investment in the United States (1936)</i>	343
	<i>Appendix 3. Relative Movements of Real Wages and Output (1939)</i>	353
	Afterword by Robert Skidelsky	373
	Index	377

Introduction by Paul Krugman

History may not repeat itself, but sometimes the rhyming is pretty spectacular. That's definitely true when it comes to recent macroeconomic events: the financial crisis of 2008 was all too reminiscent of the bank runs of the 1930s, and the protracted period of high unemployment that followed clearly echoed the Great Depression. And everything old was new again when it came to policy, too: in response to these shocks, many economists called for policies—like temporary fiscal stimulus to boost spending—whose roots obviously lay in a three-generations-old book, John Maynard Keynes's *The General Theory of Employment, Interest, and Money*. Some politicians even listened to these economists' advice.

Others, especially economists who had pronounced Keynesian economics dead decades before, were appalled. Keynesian ideas had been “proved false”, declared John Cochrane of the University of Chicago. His colleague, Nobel laureate Robert Lucas, denounced the analysis behind President Obama's stimulus plan as “schlock economics”. And while some governments did follow Keynesian policies, fear of budget deficits eventually led a number of countries into austerity policies that were the opposite of Keynesian.

What nobody could deny was that Keynes was relevant again. At one of the many post-crisis conferences on new economic thinking, the econ-

omist Mark Thoma famously remarked that new economic thinking largely seemed to involve reading old books. First and foremost among those old books, surely, was *The General Theory*.

In this introduction I will address six issues concerning *The General Theory*. First is the book's message—something that ought to be clear from the book itself, but which has often been obscured by those who project their fears or hopes on to Keynes. Second is the question of how Keynes did it: why did he succeed, where others had failed, in convincing the world to accept economic heresy? Third is the question of how much of *The General Theory* remains in today's macroeconomics: are we all Keynesians now, or have we either superseded Keynes's legacy, or, some say, betrayed it? Fourth is the question of how Keynes has held up in the crisis and aftermath. Fifth is the question of what Keynes missed, and why. Finally, I will discuss how Keynes changed economics, and the world.

The Message of Keynes

It is probably safe to assert that many of those who denounce Keynes—and even some of who claim to support his ideas—have never read his work. In particular, it's often assumed that *The General Theory* is a leftist tract, a call for big government and high taxes.

In fact, the arrival of Keynesian economics in American classrooms was delayed by a nasty case of academic McCarthyism. The first introductory textbook to present Keynesian thinking, written by the Canadian economist Lorie Tarshis, was targeted by a right-wing pressure campaign aimed at university trustees. As a result of this campaign, many universities that had planned to adopt the book for their courses cancelled their orders, and sales of the book, which was initially very successful, collapsed. Professors at Yale University, to their credit, continued to assign the book; their reward was to be attacked by the young William F. Buckley for propounding “evil ideas”.¹

¹ For a hair-raising account of the coordinated effort to prevent American students from learning Keynesian economics, read David Colander and Harry Landreth's *The Coming of Keynesianism to America*, Edward Elgar, 1996.

But Keynes was no socialist—he came to save capitalism, not to bury it. And there’s a sense in which *The General Theory* was, given the time it was written, a conservative book. (Keynes himself declared that in some respects his theory was “moderately conservative in its implications” 377). Keynes wrote during a time of mass unemployment, of waste and suffering on an incredible scale. A reasonable man might well have concluded that capitalism had failed, and that only huge institutional changes—perhaps the nationalization of the means of production—could restore economic sanity. Many reasonable people did, in fact, reach that conclusion: large numbers of British and American intellectuals who had no particular antipathy toward markets and private property became socialists during the depression years simply because they saw no other way to remedy capitalism’s colossal failures.

Yet Keynes argued that these failures had surprisingly narrow, technical causes. “We have magneto [alternator] trouble” he wrote in 1930, as the world was plunging into depression.² And because Keynes saw the causes of mass unemployment as narrow and technical, he argued that the problem’s solution could also be narrow and technical: the system needed a new alternator, but there was no need to replace the whole car. In particular, “no obvious case is made out for a system of State Socialism which would embrace most of the economic life of the community” (378). While many of his contemporaries were calling for government takeover of the whole economy, Keynes argued that much less intrusive government policies could ensure adequate effective demand, allowing the market economy to go on as before.

Still, there is a sense in which free-market fundamentalists are right to hate Keynes. If your doctrine says that free markets, left to their own devices, produce the best of all possible worlds, and that government intervention in the economy always makes things worse, Keynes is your enemy. And he is an especially dangerous enemy because his ideas have been vindicated so thoroughly by experience.

Stripped down, the conclusions of *The General Theory* might be expressed as four bullet points:

²“The Great Slump of 1930”, reprinted in *Essays in Persuasion, The Collected Writings of John Maynard Keynes*, Macmillan for the Royal Economic Society, 1972, volume IX, p. 129.

- Economies can and often do suffer from an overall lack of demand, which leads to involuntary unemployment
- The economy's automatic tendency to correct shortfalls in demand, if it exists at all, operates slowly and painfully
- Government policies to increase demand, by contrast, can reduce unemployment quickly
- Sometimes increasing the money supply won't be enough to persuade the private sector to spend more, and government spending must step into the breach

To a modern practitioner of economic policy, none of this—except, possibly, the last point—sounds startling or even especially controversial. But these ideas were not just radical when Keynes proposed them; they were very nearly unthinkable. And the great achievement of *The General Theory* was precisely to make them thinkable.

How Keynes Did It

At a guess, most contemporary economists, if they ever actually read *The General Theory*, did so during their student days. Modern academic economics is an endeavor dominated by the new. Often, a whole literature has arisen, flourished, and decayed before the first paper in that literature receives formal publication. Who wants to spend time reading stuff first published 80 years ago?

But *The General Theory* is still worth reading and rereading, not just for what it tells us about the economy, but for what it tells us about the nature of progress in economic thought. Economics students who read Keynes tend to enjoy Keynes's flashes of wit and purple prose, but labor through or skim his elaborate discussions of methodology. But when older economists—especially those with some experience of the “struggle of escape” involved in producing a new economic theory—reread Keynes, they see his work from a very different perspective. And they feel a new sense of awe. Parts of the book that once seemed tedious are, one comes to understand, part of a titanic effort to rethink economics, an effort whose success is demonstrated by the fact that so many of Keynes's radi-

cal innovations now seem obvious. To really appreciate *The General Theory*, one needs a sense of what Keynes had to go through to get there.

In telling people how to read *The General Theory*, I find it helpful to describe it as a meal that begins with a delectable appetizer and ends with a delightful dessert, but whose main course consists of rather tough meat. It is tempting for readers to dine only on the easily digestible parts of the book, and skip the argument that lies between. But the main course is where the true value of the book lies.

I am not saying that one should skip the fun parts. By all means, read them for the sheer enjoyment, and as a reminder of what Keynes accomplished. In fact, let me say a few words about those parts of the book before I myself get to the hard parts.

Book I is Keynes's manifesto, and for all its academic tone, and even its inclusion of a few equations, it is a thrilling piece of writing. Keynes puts you, the professional economist—for *The General Theory* was, above all, a book written for knowledgeable insiders—on notice that he is going to refute everything you thought you knew about employment. In just a few pages he convincingly shows that the then conventional view about the relationship between wages and employment involves a basic fallacy of composition: "In assuming that the wage bargain determines the real wage the classical school have slipped into an illicit assumption" (13). From this, he quickly shows that the conventional view that wage cuts were the route to full employment made no sense given the realities of the time. And in just a few more pages he lays out enough of his own theory to suggest the breathtaking conclusion that the Great Depression then afflicting the world was not only solvable, but easily solvable.

It is a bravura performance. Modern readers who stop after Book I, however, without slogging through the far denser chapters that follow, get a sense of Keynes's audacity, but not of how he earned the right to that audacity.

Book VI, at the opposite end of *The General Theory*, really is a kind of dessert course. Keynes, the hard work of creating macroeconomics as we know it behind him, kicks up his heels and has a little fun. In particular, the final two chapters of *The General Theory*, though full of interesting ideas, have an impish quality. Keynes tells us that the famous victory of free trade over protectionism may have been won on false pretenses—

that the mercantilists had a point. He tells us that the “euthanasia of the rentier” (376) may be imminent, because thrift no longer serves a social function. Did he really believe these things, or was he simply enjoying tweaking the noses of his colleagues? Probably some of both.

Again, Book VI is a great read, although it has not stood the test of time nearly as well as Book I. But the same caution applies: by all means, read Keynes’s speculations on the virtues of mercantilism and the vanishing need for thrift, but remember that the tough stuff in Books II through V is what gave him the right to speculate.

So now let us talk about the core of the book, and what it took for Keynes to write it.

There is no shortage of people willing to challenge conventional economic wisdom; I receive countless books claiming to do just that. The vast majority of these books’ authors, however, do not understand enough about existing economic theory to mount a credible challenge.

Keynes, by contrast, was deeply versed in the economic theory of his time, and understood the power of that body of theory. “I myself”, he wrote in the preface, “held with conviction for many years the very theories which I now attack, and am not, I think, unaware of their strong points” (p. xxi). He knew that he had to offer a coherent, carefully reasoned challenge to the reigning orthodoxy to change peoples’ minds. In Book I, as Keynes gives us a first taste of what he is going to do, he writes of Malthus, whose intuition told him that general failures of demand were possible, but had no model to back that intuition: “[S]ince Malthus was unable to explain clearly (apart from an appeal to the facts of common observation) how and why effective demand could be deficient or excessive, he failed to provide an alternative construction; and Ricardo conquered England as completely as the Holy Inquisition conquered Spain” (32).

That need to “provide an alternative construction” explains many of the passages in *The General Theory* that, 80 years later, can seem plodding or even turgid. In particular, it explains Book II, which most modern readers probably skip. Why devote a whole chapter to “the choice of units”, which does not seem to have much to do with Keynes’s grand vision? Why devote two more chapters to defining the meaning of income, savings, and investment? For the same reason that, to give an

example I know well, economists working on applications of increasing returns to international trade and economic growth theory in the 1980s lavished many pages on the details of product differentiation and monopolistic competition. These details had nothing much to do with the fundamental ideas behind the new theories. But the details were crucial to producing the buttoned-down models economists needed to clarify their thoughts and explain those thoughts to others. When you are challenging a long-established orthodoxy, the vision thing does not work unless you are very precise about the details.

Keynes's appreciation of the power of the reigning orthodoxy also explains the measured pace of his writing. "The composition of this book", wrote Keynes in the preface, "has been for the author a long struggle of escape, and so must the reading of it be ..." (p. xxiii). Step by step, Keynes set out to liberate economists from the intellectual confines that left them unable to deal with the Great Depression, confines created for the most part by what Keynes dubbed "classical economics".

Keynes's struggle with classical economics was much more difficult than most economists can easily imagine today, although those who engage in public debate with non-economists may have a better sense of what he faced.

Modern macroeconomics textbooks usually contain a discussion of something they call the "classical model" of the price level. But that model offers far too flattering a picture of the classical economics Keynes had to escape from. What we call the classical model today is really a post-Keynesian attempt to rationalize pre-Keynesian views. Change one assumption in our so-called classical model, that of perfect wage flexibility, and it turns back into *The General Theory*. If that had been all Keynes had to contend with, *The General Theory* would have been an easy book to write.

The real classical model, as Keynes described it, was something much harder to fix. It was, essentially, a model of a barter economy, in which money and nominal prices do not matter, with a monetary theory of the price level appended in a non-essential way, like a veneer on a tabletop. It was a model in which Say's Law applied: supply automatically creates its own demand, because income must be spent. And it was a model in which the interest rate was purely a matter of the supply and demand for

funds, with no possible role for money or monetary policy. It was, as I said, a model in which ideas we now take for granted were literally unthinkable.

If the classical economics Keynes confronted had been what we call the classical model nowadays, he would not have had to write Book V of *The General Theory*, “Money-wages and prices”. In that book Keynes confronts naïve beliefs about how a fall in wages can increase employment, beliefs that were prevalent among economists when he wrote, but play no role in the model we now call “classical”.

So the crucial innovation in *The General Theory* is not, as a modern macro-economist tends to think, the idea that nominal wages are sticky. It is the demolition of Say’s Law and the classical theory of the interest rate in Book IV, “The inducement to invest”. One measure of how hard it was for Keynes to divest himself of Say’s Law is that to this day some people deny what Keynes realized—that the “law” is, at best, a useless tautology when individuals have the option of accumulating money rather than purchasing real goods and services. Another measure of Keynes’s achievement may be hard to appreciate unless you’ve taught introductory macroeconomics: how do you explain to students how the central bank can reduce the interest rate by increasing the money supply, even though the interest rate is the price at which the supply of loans is equal to the demand? It is not easy to explain even when you know the answer; think how much harder it was for Keynes to arrive at the right answer in the first place.

But the classical model wasn’t the only thing Keynes had to escape from. He also had to break free of the business cycle theory of the day.

There was not, of course, anything like a fully-worked out model of recessions and recoveries. But it is instructive to compare *The General Theory* with Gottfried Haberler’s *Prosperity and Depression*, written at roughly the same time, which was a League of Nations-sponsored attempt to systematize and synthesize what the economists of the time had to say about the subject.³ What is striking about Haberler’s book, from a modern perspective—aside from the absence of any models—is that he was trying to answer the wrong question. Like most macroeco-

³Gottfried Haberler, *Prosperity and Depression*, League of Nations, 1937.

conomic theorists before Keynes, Haberler believed that the crucial thing was to explain the economy's dynamics, to explain why booms are followed by busts, rather than to explain how mass unemployment is possible in the first place. And Haberler's book, like much business cycle writing at the time, seems more preoccupied with the excesses of the boom than with the mechanics of the bust. Although Keynes speculated about the causes of the business cycle in Chap. 22 of *The General Theory*, those speculations were peripheral to his argument. Instead, Keynes saw it as his job to explain why the economy sometimes operates far below full employment. That is, *The General Theory* for the most part offers a static model, not a dynamic model—a picture of an economy stuck in depression, not a story about how it got there. So Keynes actually chose to answer a more limited question than most people writing about business cycles at the time.

Indeed, most of Book II of *The General Theory* is a manifesto on behalf of Keynes's strategic decision to limit the question. Where pre-Keynesian business cycle theory told complex, confusing stories about disequilibrium, Chap. 5 makes the case for thinking of an underemployed economy as being in a sort of equilibrium in which short-term expectations about sales are, in fact, fulfilled. Chapters 6 and 7 argue for replacing all the talk of forced savings, excess savings, and so on that was prevalent in pre-Keynesian business cycle theory—talk that stressed, in a confused way, the idea of disequilibrium in the economy—with the simple accounting identity that savings equal investment.

And Keynes's limitation of the question was powerfully liberating. Rather than getting bogged down in an attempt to explain the dynamics of the business cycle—a subject that remains contentious to this day—Keynes focused on a question that could be answered. And that was also the question that most needed an answer: given that overall demand is depressed—never mind why—how can we create more employment?

A side benefit of this simplification was that it freed Keynes and the rest of us from the seductive but surely false notion of the business cycle as morality play, of an economic slump as a necessary purgative after the excesses of a boom. By analysing how the economy stays depressed, rather than trying to explain how it became depressed in the first place, Keynes