FOREIGN CAPITAL INFLOWS, DOMESTIC SAVINGS AND ECONOMIC GROWTH THE CASE OF ALGERIA

MOHAMMED TAHAR NID

808230

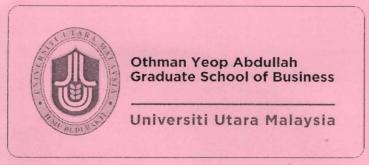
MASTER OF ECONOMICS
UNIVERSITI UTARA MALAYSIA

FOREIGN CAPITAL INFLOWS, DOMESTIC SAVINGS, AND ECONOMIC GROWTH: THE CASE OF ALGERIA

A thesis Submitted to the

Othman Yeop Abdullah Graduate School of Business,
in partial fulfillment of the requirements for the
degree of Master of Science Economics
Univesiti Utara Malaysia

By
MOHAMMED TAHAR NID
(808230)



PERAKUAN KERJA KERTAS PROJEK

(Certification of Project Paper)

Saya, mengaku bertandatangan, memperakukan bahawa (I, the undersigned, certified that)
MOHAMMED TAHAR NID (808230)

Calon untuk Ijazah Sarjana (Candidate for the degree of) MASTER OF ECONOMICS

telah mengemukakan kertas projek yang bertajuk (has presented his/her project paper of the following title)

FOREIGN CAPITAL INFLOWS, DOMESTIC SAVINGS AND ECONOMIC GROWTH: THE CASE OF ALGERIA

Seperti yang tercatat di muka surat tajuk dan kulit kertas projek (as it appears on the title page and front cover of the project paper)

Bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan.

(that the project paper acceptable in the form and content and that a satisfactory knowledge of the field is covered by the project paper).

Nama Penyelia (Name of Supervisor)

ASSOC. PROF. DR. JAUHARI B DAHALAN

Tandatangan (Signature)

Tarikh (Date)

11 JUNE 2012

PERMISSION TO USE

In the submission of this thesis in fulfilment of the requirement for a postgraduate degree

program under Universiti Utara Malaysia (UUM). I hereby agree to permit the University

Library to use this project paper as reference purposes, duplication or extraction for academic

usage. All the above mentioned condition can be done by getting approval from my supervisor

or The Dean of College of business, UUM. Any duplication, publication or extraction for

profitable purposes is highly restricted for this study without my written permission. It is also

understood that due recognition shall be given to me and to Universiti Utara Malaysia for any

scholarly use which may be made of any material from my thesis.

An appreciation should be given to UUM due to the permission allow to use all the resources

for the project paper. An application letter to use it can be addressed to the:

Dean

Othman Yeop Abdullah Graduate School of Business

Universiti Utara Malaysia

06010 UUM Sintok

Kedah Darul Aman

Malaysia

i

DISCLAIMER

The author is responsible for the accuracy of all opinion, technical comment, factual report,

data, figures, illustrations and photographs in this dissertation. The author bears full

responsibility for the checking whether material submitted is subject to copyright or ownership

right. Universiti Utara Malaysia (UUM) does not accept any liability for the accuracy of such

comment, report and other technical and factual information and the copyright or ownership

rights claims. The author declares that this dissertation is original and his own except those

literatures, quotations, explanations and summarizations which are duly identified and

recognized. The author hereby granted the copyright of this dissertation to College of Business,

Universiti Utara Malaysia (UUM) for publishing if necessary.

Date:

Student Signature:

íi

DEDICATIONS

My special thanks to my beloved family, especially my parents, brothers, and sisters, who

sacrificed so much and supported my efforts with love, understanding and constant

encouragement without which it would not have been possible for me to earn this degree.

Also I would like to dedicate my sincere gratitude and appreciation to friends around me

Moussab Bey Abbas Ramdani, Tarek kacemi, Ghimari Abdelkarim, Boubekeur Baba,

Oussama Saoula, Mouslem Damkhi, Djamal Amouri, Hacine Gherbi Elhachemi,Rochdi

Debili, Hocine Meddor, Ali Mehalou, shahroul anouar, Mohammed Madi, Tamer Madi,

Othmany, Mohammed Qeshta, Mohammed Aljabry, Rababah Hamisu Ibrahim Alhaj, Musa

Sulaimanm and all of my friends in UUM (2011-2012) for the time, experiences and

knowledge that we shared together at UUM, May Bank Campus.

Lastly, I would like to thank my Brothers in Algeria Lakhdar Rezag Bara, Yahya Benin, Dr

Faouzi Mehirig, Khalil Fouhma, Abdelraouf Mesoudi, Brahim Bia, Okba Abdellaoui, Ilyes

Midoun, Yakoub Guezoun, Habib Allah Salmi, Said Bouchoul, Abdeldjalil Chellig,

Abdelhakoim Ben Sghir Chaib Boushoul and many others for helping me in one way or

another throughout the completion of this project.

Mohammed Tahar Nid Master of Economics

June, 2012

iii

ACKNOWLEDGEMENT

First and foremost, the highest gratitude to Allah S.W.T and his Prophet Muhammad S.A.W for giving me the strength to complete thesis even though with the tight schedule. Thousands and millions of my sincere and utmost appreciation and gratitude to my dedicated supervisor Prof. Madya Dr. Jauhari B Dahalan has helped me tremendously in focusing my thoughts and coaching me to put my pieces of ideas into a meaningful structure. Moreover, he has been very patient in guiding me and also giving me tonnes of moral support needed.

It would not have been possible for me to complete my Master of Science (Economics) program and this project paper without the support of my family. My first expression of gratitude goes to my dearest parents deserve special mention for their inseparable and prayers. My father Ismail, in the first place is the person who put fundament my learning character, showing me the joy of intellectual pursuit ever since I was a child. My mother, Rabia Debbab, is the one who sincerely raised me with caring and gently love. My deep gratitude goes to brothers-in-law, Abdallah who sacrificed much of his time taking care of my work, while I was busy and away doing my master. I extend my thanks to my younger and eldest my sisters-in-law Asmaa, and djouiria, and my younger brothers Nadir, and Ayman.

I would like to thank Dr Laid Derouiche, Dr Soufian Bouragaa, Dr Rachida Bouchoul also to my colleagues and friends for the many moments of insights, inspiration, laughter, and support throughout the completion of the program and this project paper. My special thanks to my roommate, and classmate Mousaab Bey, and my close friend Abbas Ramdani who had countless hours helping me during my life in Malaysia, My lectures in faculty of Economy, Banking, and Finance, who had shown their concern and interest in

this paper, and thirdly I convey my heartfelt gratitude to my dear brother who was

supportive me financially and morally and was very patience with my absent of our work

during the period of my study.

My sincere thanks also goes to all other people who may be involved directly or

indirectly in helping me to complete this final project paper. May Allah bless all of you

and Alhamdulilah!

Thank you.

Mohammed Tahar Nid

June, 2012

v

ABSTRACT

Understanding the growth process is central to development economics. Analyzing and interpreting the determinants of growth, either the process has worked or failed in countries is ultimately an empirical issue. This study attempts to explain this issue not limited to the economic impact of FCI, domestic savings, and Interest rate economic growth in Algeria but also on how they are related in a dynamic framework. The model for analysis was developed based on the Two Gaps economic growth model. The analysis of this relationship is based on annual time series data for the period of 1980-2010. This study employs approaches in its estimation of the dynamic relationship vector error correction model and granger causality. The results show that domestic savings have a positive and significant effect, but foreign capital inflows are insignificant to Algeria's economic growth in the long run. Also, the interest rate has significant influence towards economic growth in Algeria in the long run. The insignificant impact of FCI on economic Growth in Algeria. Could be due to the fact that FCI in Algeria during the period of the study is quite small. The finding, particularly on interest rates and savings has some policy relevance at the macro development perspective.

ABSTRAK

Memahami proses pertumbuhan adalah keutamaen dalam ekonomi pembangunan. Menganalisa dan menginterpretasi penentu pertumbuhan, sama ada proses itu bejaya atau gagal di merupakan isu empirik. Kajian ini bertujuan untuk menjelaskan isu ini bukan sahaja terhadap kesan ekonomi dari FCI, simpama domestik, dan kadar bunga keatas pertumbuhan ekonomi di Algeria, tetapi juga mengenai bagaimana mereka berhubungan dalam kerangka yang dinamik. Model analisisa dibangunkan berdasarkan model pertumbuhan ekonomi Dua Jurang. Analisa ini adalah berdasarkan kepada data siri masa tahunan bagi tempoh 1980-2010. Kajian ini menggunakan pendekatan ARDL, VECM dan kausaliti Granger dalam penganggaran hubungan dinamik. Hasil kajian menunjukkan bahawa simpanan domestik memberi kesan positif dan signifikan, tetapi aliran masuk modal asing memberikan kesan yang tidak ketara kepada pertumbuhan ekonomi Algeria dalam jangka masa panjang. Kadar bunga juga mempengaruhi pertumbuhan ekonomi Algeria dalam jangka masa panjang. Kesan FCl yang tidak ketara pada pertumbuhan ekonomi Algeria dalam tempoh kajian mungkin disebabkan oleh jumlah FCI yang kecil. Hasil kajian menunjukkan kadar bunga dan simpanan adalah relevan pada perspektif dasar pembangunan makro.

TABLE OF CONTENTS

PERM	IISSION TO USE	i	
DISCLAIMERii			
DEDIC	CATIONS	iii	
ACKN	ACKNOWLEDGEMENTiv		
ABST	ABSTRACT		
ABSTRAK		vi	
TABLE OF CONTENTS		viii	
LIST	LIST OF FIGURES		
LIST	OF TABLES	xi	
CHAP	TER ONE	1	
1.1	Introduction	1	
1.2	Background of this Study	2	
1.3	Statement of Problem	5	
1.4	Objective of The Study	7	
1.5	Hypothesis of The Study	7	
1.6	Research Question	8	
1.7	Scope of Study	9	
1.8	Significant of Study	9	
1.9	Organization of Study	. 11	
CHAP	TER TWO	. 13	
2.1	Introduction	. 13	
2.2	Savings and Growth	. 14	
2.3	Foreign Capital Inflows and Growth	. 20	
2.4	Summary and Concluding Remarks	. 25	
CHAP	TER THREE	. 27	
3.1	Introduction	. 27	
3.2	Research Design	. 27	
3.2.	1 Conceptual Framework	. 27	
3.2.2	Model Specification	. 29	
3.3	Estimation Technique	. 33	
3.3.	I Univariate Analysis	. 34	
3.	3.1.1 Unit Root Test	. 34	

3.3.1.1.1 Augmented Dickey-Fuller Test (ADF)	34
3.3.1.1.2 Philips-Perron Test (PP)	35
3.3.2 Multivariate Analysis	36
3.3.2.1 ARDL Approach	36
3.3.2.2 Bounds Testing Procedure	38
3.3.2.3 Granger Causality Test	40
3.3.2.4 Error Correction Mechanism	41
3.4 SUMMARY	42
CHAPTER FOUR	43
4.1 Introduction	43
4.2 The Data	43
4.3 Descriptive Analysis	44
4.4 Model Estimation	45
4.5 Empirical Results and Finding	46
4.5.1 Univariate Analysis	46
4.5.1.1 Test for unit roots	46
4.5.1.1.1 Augmented Dickey-Fuller Test (ADF)	47
4.5.1.1.2 Philips-Perron Test (PP)	48
4.5.2 Multivariate Analysis	49
4.5.2.1 Bounds Testing Procedure	49
4.5.2.2 ARDL Approach	50
4.5.2.3 Error Correction Mechanism	
4.5.2.4 Granger Causality Test	54
4.6 SUMMARY	55
Annondiv	70

LIST OF FIGURES

Figure 3.1	28
rigures	20

LIST OF TABLES

Γable 4.2	44
Table 4.3	45
Table 4.5.1.1.1.1	47
Table 4.5.1.1.1.2	47
Table 4.5.1.1.2.1	48
Table 4.5.1.1.2.2	48
Table 4.5.2.1	49
Table 4.5.2.2.1	., 51
Table 4.5.2.2.2	52
Table 4.5.2.3	53
Table 4.5.2.4	54

CHAPTER ONE

INTRODUCTION

1.1 Introduction

One of the most central questions in economics over the years has been why some countries are poor than the others. A vast majority of economies in the world today are seemingly experiencing economic destitution whereas a few countries are experiencing the fruits of prosperity. Economists have endeavoured to explore the nature and the causes of economic growth for explaining the path to prosperity. As a result, numerous determinants of economic growth have been established in macroeconomic growth theory and policy. There has seemingly been increased attention on the role of foreign capital, and domestic saving in growth. Though recent developments of this literature have generated insights relevant for explaining the general characteristics of developing economies, the extended research is necessary in this area.

In recent years, there has been extensive empirical work on savings, investment and economic growth. The reasons for this are threefold. Firstly, the growing concern over the falling savings rates in the major developing countries; secondly, the growing divergence in saving and investment rates between the developing countries; and thirdly, recent growth literature which emphasizes the role of investment in economic growth. Foreign capital inflows have also received considerable attention recently, which have beneficial effects in financing investment and economic growth. However

The contents of the thesis is for internal user only

REFRENCES

- Aghion, P., D. Comin., & P. Howitt. (2006). When Domestic Savings Matter for Economic Growth? . NBER Working Paper 12275.
- Agrawal, P. (2005). Foreign Direct Investment in South Asia: Impact on Economic Growth and Local Investment. in E.M. Graham (ed.). *Mltinationals and Foreign Investment in Economic Development*. Basingstoke (Palgrave Macmillan), 94-118.
- Ahmad, M.H., & Q.M. Ahmed. (2002). Foreign Capital Inflows and Domestic Savings in Pakistan: Cointegration Techniques and Error Correction Modelling. *The Pakistan Development Review.* 41 (4), 825-836.
- Ahmad, Z. B.,& Abdul Malik Thanoon, M. (2006). Foreign Capital Flows and economic Growth in East Asian Countries. *China Economic Review*. 17(1), 70-83.
- Anderson, B. (1999). On the Causality between Savings and Growth: Long and Short Run Dynamics and Country Heterogeneity. *Department of Economics*. Uppsala University, Sweden.
- Anoruo, E., & Y. Ahmad (2001). Causal Relationship between Domestic Savings and Economic Growth: Evidence from Seven African Countries. *African Development Bank*. Blackwell Publishers, Oxford.
- Attanasio, O.P., L. Picci., & A.E. Scorcu. (2000). Saving, Growth, and Investment: A Macroeconomic Analysis Using a Panel of Countries. The Review of Economics and Statistics. 82 (2),182-211.
- Balasubramanyam, V., &M. Salisu., & D. Sapsford. 1996. Foreign Direct Investment and growth in EP and IS countries. The Economic Journal.106,92-105.
- Bahmani O, M., & J. Alse (1994). Short-Run versus Long-Run Effects of Devaluation:

- Error-Correction Modelling and Cointegration. Eastern Economic Journal. Eastern Economic Association. 20(4), 453-464.
- Barro, Robert J. & Xavier, Sala-i-Martin. (2003). Economic Growth, 2nd edition.

 Cambridge, MA: MIT Press.
- Bhandari, Rabindra, Dharmendra, Dhakal, Gyan, Pradhan & Kamal, Upadhyaya. (2007).

 Foreign Aid, FDI and Economic Growth in East European Countries. Economic Bulletin. 6(1), 1-9, Internet Edition. Retrieve July 1, 2008, from http://economicsbullctin.vanderbilt.edu.
- Bond, S., A. Klemn, R., Newton-Smith, M. S., & G. Vlieghe. (2004). The Role of Expected Profitability, Tobin's Q and Cash Flow in Econometric Models of Company Investment. The Institute of Fiscal studies, Working Paper: 04/12.
- Boone, P. (1995). The Impact of Foreign Aid on Savings and Growth and Politics and the Effectiveness of Foreign Aid. Centre for Economic Performance. London School of Economics, Working Paper 265-1267.
- Borenzstein, E., &J, De Gregorio., & J-Wha, Lee. (1998). How does Foreign Direct Investment Effect Economic Growth? Journal of International Economics. 45(I).115-35.
- Bosworth, B., S. Collins., & C. Reinhart. (1999). Capital Flows to Developing Economies: Implications for Savings and Investment. Brookings Papers on Economic Activity. 1. 143-180.
- Burnside, C., & David, D. (2000). Aid, Policies and Growth. American Economic Review.90, 847-68.
- Carroll, C., & Weil, D. (1994). Saving and Growth: A Reinterpretation. Carnegie-Rochester Conference Series on Public Policy 4'. 133-192.
- Cass, D. (1965). Optimum Growth in an Aggregative Model of Capital Accumulation.

 Review of Economic Studies. 32, 233-240.

- Chakraborty, C., & P. Nunnenkamp. (2006). Economic Reforms, Foreign Direct Investment and its Economic Effects in India. Kiel Working Paper 1272. The Kiel Institute for the World Economy, Kiel, Germany.
- Chenery, H. B., Alan M., & Strout. (1966). Foreign Assistance and Economic Development. American Economic Review. 56(4), 679-733.
- Chenery, H., & A. Strout. (1966). Foreign Assistance and Economic Development.

 American Economic Review. 56(4), 679-733.
- Cheng, H., & Yan, S. (2003). Foreign Direct Investment and Economic Growth: The Importance of Institutions and Urbanization. Economic Developments and Cultural Change, 51(3-4), 883-86.
- Claus, I., D. Haugh., G. Scobie., & J. Tömquist. (2001). Saving and Growth in an Open Economy. New Zealand Treasury Working Paper. 01/32.
- De Long, B., L. Summers. (1993). How Strongly do Developing Economies Benefit from Equipment Investment?. Journal of Monetary Economics. 32(3), 395-415.
- Diego, R. (2006). Can the AK Model Be Rescued? New Evidence from Unit Root Tests with Good Size and Power. Topics in Macroeconomics, Berkeley Electronic Press. 6(1),1336-1336.
- Domar, D. (1946). Capital Expansion, Rate of Growth, and Employment. Econometrica 14(2), 137-147.
- Durlauf, S. N. (2002). Policy Evaluation and Empirical Growth Research. University of Wisconsin at Madison, Internet Edition. Retrieve June 1, 2004, from http://ideas.repec.org/p/chb/bcchwp/205.html.
- Edwards, S. (1995). Why are Saving Rates so Different Across Countries?: An International Comparative Analysis. NBER Working Papers 5097.
- Edwards, S. (1996). Why are Latin America's Saving Rates so Low? An International

- Comparative Analysis. Journal of Development Economics. 51(1), 5-44.
- Fayissa, B., Mohammed. I., & El-Kaissy. (1999). Studies in Comparative International Development, Publication Date: 09/22.
- Feldstein, M. (1983). Domestic Saving and International Capital Movements in the Long Run and the Short Run. European Economic Review. 21 (I/2), 129-151.
- Feldstein, M., & C. Horioka. (1980). Domestic Saving and International Capital Flows.

 The Economic Journal. 90(358), 314-329.
- Frankel, M. (1962). The Production Function in Allocation and Growth: A Synthesis.

 American Economic Review. 52. 996-1022.
- Fry, M. J. (1993). Foreign Direct Investment in Southeast Asia: Differential Impact.

 Singapore: ASEAN Economic Research Unit, Institute of South East Asia

 Studies.
- Gavin, M., Hausmann, R., E. Talvi. (1997). Saving Behaviour in Latin America:

 Overview and Policy Issues.In Hausmann and Reisen R. (Eds.). Promoting

 Savings in Latin America, OECD and Inter-America Development Bank. Paris.
- Griffin, K. (1970). Foreign Capital, Domestic Saving and Economic Development. Oxford Bulletin of Economics and Statistics 32(9): 99-112.
- Griffin, K. & J. Enos (1970), Foreign Assistance: Objectives and Consequences.

 Economic Development and Cultural Change 18(3). 313-327.
- Haavelmo, T. (1963). Comment on Wassily Leontief: The Rate of Long-Run Growth and Capital Transfers from Developed to Underdeveloped Areas. The Econometric Approach to Development Planning, North Holland, Amsterdam.
- Hansen, H., & F, Trap. (2000). Aid Effectiveness Disputed. Journal of International Development. 12, 375-98.
- Harrod, R. (1939). An Essay in Dynamic Theory. Economic Journal. 49. 14-33.

- Lawil, B. (2008).1995/2007 الجزائر في على النمو الاقتصادي الأجنبي المباشر تأثير الاستثمار 1995/2007 Paper for graduate master. University Mohamed Boughara, Boumerdas Algria.
- Leff, N. (1969). Dependency Rates and Saving Rates. American Economic Review. 59(5), 886-896.
- Leff, N. H. (1969). Dependency Rates and Saving Rates. American Economic Review, New York: American Economic Association. 59(5), 1-7.
- Levine, R., D. Renell. (1992). A Sensitivity Analysis of Cross-Country Regressions. The American Economic Review. 82(4), 942-963.
- Lewis, A.W. (1955). The Theory of Economic Growth. Homewood. IL. Richard, Irwin.
- Leyboume, S., & P. Newbold. (2003). Spurious Rejections by Cointegration Tests

 Induced by Structural Breaks. Applied Economics. 35(9), 1117-1121.
- Li, D. (2002). Is the AK Model Still Alive? The Long-run Relation between Growth and Investment Re-examined. Canadian Journal of Economics. 35(1), 92-114.
- Loayza, N., K. Schmidt.H.,& L. Serven. (2000). Saving in Developing Countries: An Overview. The World Bank Economic Review. 14(3), 393-414.
- Lucas, R. (1988). On the Mechanics of Economic Development. Journal of Monetary Economics. 22(1), 3-42.
- Mikesell, R., & J. Zinser. (1973). The Nature of Savings Function in Developing Countries: A Survey of the Theoretical and Empirical Literature. Journal of Economic Literature. I(I), 1-26.
- Modigilani, F. (1970). The Life Cycle Hypothesis of Savings and Intercountry

 Differences in the Savings Ratio, in Eltis, Scott and Wolfe (eds.). Induction,

 Growth and Trade. Clarendon Press Oxford: 197-225.
- Mohey-ud-din, G. (2006). Impact of Foreign Capital Inflows (FCI) on Economic Growth

- in Pakistan 1975-2004. MPRA Paper 1233, Department of Economics, GC University, Lahore.
- Mousou, H. (2007). Essai de comparaison de l'attractivité des IDE dans le développement du secteur privé cas des pays du Maghreb (Algérie, Tunisie et Maroc). University of Bedjaya, Algeria.
- Nafir Z., Mebarky H., & Tarfaya A. (2009). Thesis of graduate degree محددات الانخار
 University of Bachar .Algeria
- Narayan, P., S. Narayan. (2003), Savings Behaviour in Fiji: An Empirical Assessment
 Using the ARDL Approach to Cointegration. Discussion Papers. 02/03, Monash
 University.
- North, D.C. (1956). International Capital Flow and Development of American West. Journal of Economic History. 16(4), 493-505.
- Papanek, G. (1973). Aid, Foreign Private Investment, savings and Growth in Less Developed Countries. The Journal of Political Economy. 81 (I), 121-130.
- Pradhan, J.P. (2002). Foreign Direct Investment and Economic Growth in India: A Production Function Analysis. Indian Journal of Economics. 82(327), 582-586.
- Papanek, G. F. (1973), Aid, Foreign Private Investment, Savings, and Growth in Less Developed Countries. Journal of Political Economy. University of Chicago Press. 81(Jan.-Feb.), 120-130.
- Prasad, E., R. Rajan., & A. Subramanian. (2007). Foreign Capital and Economic Growth.

 NBER Working Paper. 13619, 153-230.
- Prasad, E., R. Rajan., & A. Subramanian. (2007). Foreign Capital and Economic Growth.

 NBER Working Paper 13619: 153-230.
- Phillips, P.C.B., & P. Perron. (1988). Testing for Unit Roots in Time Series Regression.

 Biometrika. 75, 335-346.
- Pesaran, M.H., Shin, Y., & Smith, R.J. (2001). Bounds Testing Approaches to the

- Analysis of Level Relationships. Journal of Applied Econometrics. 16, 289-326.
- Pesaran M.H, & Pesaran B. (1997). Working with Microfit 4.0: Interactive Econometric Analysis. Oxford Oxford University Press.
- Johansen, S., & Juselius, K. (1990). Maximum Likeliwood Estimation and Inference on Cointegration-With Application to the Demand for Money. Oxford Bulletin of Economics and Statistics. 52, 169-210.
- Rafik, N. (2008). المغرب تونس، الجزائر،) والنمو الاقتصادي في الاستثمار الأجنبي المباشر. (2008). Paper include the require of degree graduate. University Elhadj Lakhdar, Batna. Algeria.40.
- Rahman, A. (1968). Foreign Capital and Domestic Saving: A Test of Haavelmo's Hypothesis with Cross Country Data. Review of Economics and Statistics. 50(1), 137-138.
- Ramsey, F.P. (1928). A Mathematical Theory of Saving. the Economic Journal .38 543-559.
- Rati, R., & Kevin, H, Z. (2002). Foreign Direct Investment and Economic Growth:

 Evidence from Cross-Country Data for the 1990. Economic Development and

 Cultural Change. 51(I-2), 205-15.
- Reinhart., C. & E. Talvi. (1998). Capital flows and Saving in Latin America and Asia: A Reinterpretation. Journal of Development Economics. 57(1), 45-66.
- Rodrick, D. (2000). Saving Transitions. The World Bank Economic Review. 14(3),481-507.
- Romer, P. (1986). Increasing Returns and Long-Run Growth. Journal of Political Economy 94(5), 1002-1037.
- Thesis الاستثمار الأجنبي المباشر في الدول النامية حالة الجزائر .(2008). Saida, H.,& Hadjer.B.

- include the require of graduate degree. University Yahya Fares. Media. Algeria.129.
- Schmidt-H. K., L. Serven .,&A. Solimano. (1996). Saving and Investment: Paradigms, Puzzles, Policies. World Bank Research Observer. 11 (1), 87-117.
- Shahdy, F., Elyamin. S.,& Lakhal,N. (2005) الشكالية الاستثمار الأجنبي المباشر في الجـــزائر.

 Project Paper include the require of graduate degree .High School of Commerce.

 Algeria.23.
- Shiva, M S., & Agapi, S. (2004). Impact of Foreign Direct Investment and Trade on Economic Growth: Evidence from Developing Countries. Article Presented at the ASSA Winter Meeting. San Diego, CA, January.
- Sinha, D. & T. Sinha. (1998). Cart Before the Horse? The Saving-Growth Nexus in Solow, R.M. (1956). A Contribution to the Theory of Economic Growth, Quarterly. Journal of Economics. 70(I), 65-94.
 - Swan, T.W. (1956). Economic Growth and Capital Accumulation. Economic Record. 32(2), 334-361.
- Tamajai, A. (2000). The Impact of Capital Inflows on Asian Economic Growth. PhD Dissertation, Fordham University.
- United Nations Conference on Trade and Development. (1999). World Investment Report. New York and Geneva, UNCTAD.
- Uzawa, H. (1965). Optimal Technical Change in an Aggregative Model of Economic Growth.International Economic Review. 6,18-31.
- Yasmin, B. (2005). Foreign Capital Inflows and Growth in Pakistan: A Simultaneous Equation Model. South Asia Economic Journal 6(2), 207-219.