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Spring 1942

Notes taken by Minsky on Oscar Lange's class "Business Cycle Theory"

Hyman P. Minsky Ph.D.

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O sear Lange Economics 307 332 Business Cycle Theory Spring Luxter 1942 Lecture Notes + Reading Wites Class meets Tu Vh + Sat at 2:30 P. M in S. S. 106.

Idange d. 1. 2:30 Tutth. + Friday at 2:30 Preveg wisites: 301. Assume . Knowledge of Monetary Theny Busines Cycle Theory Refers to Pris. Cox o workcourse School of Quesiness. Refers to fact which business cycle theory is suffered to efflavor 3 or 4 parts to course. Facts of the Busines Cycle.

History of Business cycles.

22. Discurrent of such aspects

of Euro Theory which have a relevance for the explanation of becauses 3. Study of factors which betomine Frel of Busies acting

4. The Braners Cycle etself. Mr Keynes general they of Employment, Interest offing. 1) description of ranson barries

U description of ranson barries

(yeles theories factority

(deene purto Habeler: Two part: 2) Systematic Theory of experitions of Haberles Business Cycles Hanod: V rade Cycle: One of the most systematic treatment of centeryperay business cycle theones

Parts + Westery of Business α, Γ_3 Capiles of Readings prior to class meetings Basis fact of the Business explass. regular succession of persons of prosperty and depression During the last 100 yror more the leading industrial Countries were subject to alternative periods of prosperity and depension; Back to the Beginning of the 19th centery. This surression earlied the Desires Cycle and it is the applemation of this that Ecusium Cycle thong is consend with. Distriction between Buraners Cycla & values flutuation of good + Gad times: Earlier fluctuations Corresponded

to quantity of resources available for use in ourse production Coops war pestulence ato. Tachnological progress of deterroration /////// Essure of moder Business Cycle is not that elemenic well being undergoes certain fluctuations but the fact that present flushiations between prosperely & depression are not fluctuation in the quantity of available resources but in the degree of utiles ation of the resource This fact is the essential feature I meden business ageld.

Changes in degree futilezation of economics resources. unemployed labor. plants not used to capacity. lide money Disturguishes moder busies cycles from earlier fluctuations. Why are resources not always fully utilized e.s. what determines degree of utilization (2) Why the more or les regularity in the degree of flutuations Will desers various business cycle Theries: Will not shelp a definitive theory?

Main features A Surino L. 16 Cycles: 1. Flustuatures of Dutfaut. Property . High Depression - Low Output in general, not output of specific (1) + leveluation of output (2) Hustralin of employment for pertualing in employment in principal setput can rain with employment the not varying . The fluctuation in ruffert can to a major degree be explained by the Min part fluctuation of changes in technology

ld. B Flustwater of O output (2) engloyment 1. proces 3. aggreg ato money mone Statistical National money mone endeme 7. Volume of investment/unit of timo. above the primary beatures of Dusines cycles. O mus in all business cyles. Secondary feature: be declined from above b) feature which recorm most business eycles but in which there are fanous exception.

Meet in 105 m Lange & 2 Pi Fridays Busines Cycles; Empire of analysis Mustriature of output primay features: Geneployment I national money mone I investment Desenday Gestures: eather features which can be deduced from above or which occur in some must, out not all eyelos. Plustuations of prices. (a) in all depressions indep of prices follo b) in all except one. boom prices rose; in the \$923-29 Boom but all primary feature when (3) enterest vales: fall in depression . in 1932 recovery the un

Interestrates not Vange 1. Pz the only peature which. describes our endut market. eredit maket not a perfect maket a certain amount of satisfy always takes place. Conditions of credit valuring change over the business cycle Higher quale securities in boom. 2) interest notes + credit conditions 3. Flusteration of rate of return on investment 4. Output of investment goods fluctuate more markedly than output of consumero goods. 7 B. Ynies of Investment goods flusterate more than forms of consumers goods. Junpenty - app ansion depression - centraction / Customay to classify business excle into his parts I Upaving on Gefansin II. Downswing or Contraction

/ Langed 2 B I Mowing on Expansion Traditional Chassidication into 4 phases Difficult to 2. Bewery. put your II Downeing or Entraction Singer on each 1. Blession. 2. Depression. phose. Barrey depression. Upswing Downswing 2ny primery Revied Revery Bergin Deprine. Festure output Engloper Conest of a normal level of Economic activity revial that pt. of upsuring which Bevery that pt . Jeepening which exceeds the normal

Downsuring Bearing setu Lange de Py tomornal Depenion: pt fdowning below the nomial Morm Soesh't make sense except is an empirical Business cycles beyond all having something ing commen. each one has considerable features of historical uniqueness Difficulties of classification the gotten around by return to the two Johann of business eyeles. What we have to explain. I why there are periods of expansion + Centraction .? 2) what couses the terning points:
Loughy doesperfamin slop. Why does it tun with a Centralis

Haberles: classification / unapel upowing Upper tuning fourt downswing point) Recovery = boom is how it is accompanied by certain pronounced fermial effarmen. Receivery (or Boom when accompanies by strong financial features) Beceroum (a crisis if accompanied by great financial breakdowns.) Born + Enses largely refer to ferrancial Baters

Laure Let's do much about general features of businers cycle. Historical + geographical extension of business cycles. Business Cycles do not exist at all times + places.

Middle eses fluctuations quelforce

sic. 2/50 fluctuations in 7. frecomes available po depressions Poincided with wors, Somines plague -Historical observations of the businen cycles + geographical eptersion coincide with development of Modern Industrial Coopitaliam is developed. County with oldest business cycles obsenable is in England, also in France Partly in the Upuled States In demay the business cycles emergence can be observed.

In the 700 Lemany Large de 17 becomes eneshed in business cycles. Resia australia Japan, South africa - not till end of 19 Teenterny because eyeles Not only is it possible to show that besires eycle energes with modern capetalism but in countries where capitalism has not deselopment deseloped business cycles epist solely as repercussions. The year non-industrial raw material producing countrés (agriculture) e.g. argentere, australia the business eyele is the result of decline in

In Country fehall. Lange to 18 the day buseress cycle is generated in the industrial section + the agreettenof a result of the decline in the markets Business cycle generated I in the center of capitalist industry and is spread 1 Outside it gule into the agricultural I raw material producing

Jeographicalt Lange L. Py Historical extension of business cycles coincides with moder industrial capitaliam | Suggests the idea that there must be some beatures of modern industrial eapstalish which generates the cycle. 1. Features of modern industrial kapitalian

Lange. Economics 332 of Capitalian Characteristic features of modern capitalian 1. Exchange Economy. natural survey; monetary survey; in practice 2. Dosed upon private ownership of means of production. 3. Dirone foundating of ownership platort. 7 3. madianal Wage Systems guild. (plantation system not Hodern Ceptalins) vestated Characteristics features of Modern Capitalin of first 2. Private ourosatrip of given means of productions given means of pro

Maix's off. James 23 2 ephydes slave Question of including alone systems of artiguity Rome + athens approached Capitalian but. slave labor existed + was quite dominant If star labor is meluded them we suest distinguish between types of capitalian Schumpeters of grute different. Wiber Sembart Rts If Production is corried on Copylating Entrepreneur's profet money proper

How do the off wesley / large to By Exchange economy is automotically implied in Weber eta; df. of capitalism. State capitalism: Public ownership of the means of production but when each unit maximuzes money profit la strict definitions of state capitalism which seems natural of. How far does this exteria of majurization of profit impag the separation of the ownership of means of productions of the ownership of labor when produces our the tools they essentially will not act to I maximize their profit A de l'A estorio solo l'auga 7 3 /4 of geopetation encludes the slave upters as capitalist Strong thanthe Margist Df. Wages & capital cost of slave benne = conto to the - letrepenen Mary's of of capetaline as Mapenying Surplus Value = to historical schools maxing of profet. A Historical Schools DI better for our use in purk econonic theory for Marx's of thowo attention to Lerial relations under capitalism while Historial schools of thours attention regon hnotivates

Ale desutility of Laming 3 P6 Laborina non-capital ephange economy does not fagure as a money Cost while in a capitalist econy the desutility of later enters into the Entrepreneurs calculation as a money eat Non majimy atin of morey probet & to remont of o natural economy '. to eleminate all alements of natural econy stabat must be separated. : . a capitalist enoung can be of as a thoroughgoing exchange eurony. where alf

Jange To Po factors + products are calculated in Emo of money east Entreprenen lowerer may not be working to maximize morey profited Conditions of perfect competitions of imperfect competitions determine whether it is provible foran entrepreneur to wok for smeething If aside from maximogation of profet. Danger of actual losses under perfect competitions fores atvefrenend to seek & maximuze profit : under imperfect competition the entrappenentis has given the alternative of not maximize profet. desutility of efforts; prestige

approximate [dange 13 18 = only between our definitions I maximying movey profet of Mary's alf Separation of ownership of means of productions of Mught: Enterprise system of Mortel Monother Financial Capitalism) capitalist from is the Enporation Uprder Divarial Capitalini, Enterprise System no clements of natural seconomy is left * Entrepreneurs disutility is measured in morey tems.

dange 23 89 Bula of Heans Conflict between Entrepreseuro + olinero in a Enterprise Lyter Dinamial Capitalian all element of natural economy disappear. Shall assume that under moden wage capitalian approximately fines, mapinge morey profits.

History of Business Cycles lange dy Pi April 7,1742 plain. Copitalism: financial Enterprise Eurony. Historical distinction between commencal capitalism and industrial capitalism Capitalism first began in terms of commerce: The industrial revolution & industrial capitalian Some historical distinction between Imamiol & industrial capitalism (counding with the rise of the modern exponations) Burners cycle goes as of the beginning of the liss of industrial capitalism Centry in Eng. + France.

Medeeral econon Lange by Pr. flutuations were always dentes la a definite economie cause. Modern bonners cycle is characterized by a regularity which makes it independent of non- a extra - evorume Period of transition klarcer Industrial Capitalian & natural evening: that of Commercial espitalism Commenced enses dung periods of commercial capitalism has in common with modern business cycles that there were periods of served resources. Omanual enses derelops at the same period: Connected with the beginning of with the beginning of wides of . * commerce coefficient

Joint Stock Laange dy 13 Company developed som to Financial capitalism but they whe not dominant. Institutions of laterstages were present during lady commend capitalism tem business eyeles Jeaters which Commercial crises have in Common with moder business cycles Dennted tofininal airtestation + trade: were not anonpamed by flustrature in Industrial output and employment.

Lange dy Py 3) did not have the regularity of the modern business eyeles but were more or less moques. A ster of ences Tint part of 17 to contry in Holland 1634-37 - tulip spanlalis. / Emberation of commercial - financial crises one of the earliest. Frame: Johnstow Mersesupose Company. 1720 England: South Seas Company: South Sea Bubble Nature of difficulties which vising commercial capitalin had to meet

angid, & John Law: Munisipi Company Compagne les Proliso Toursed 1717. John daw promied to pay If from the proceeds of this company The Justin debt of France. Company usued stocky advertised it cought the imagination of the people. 1718 - 2,000 %. Speuletin 1718 - 3,000 % Craze. Break down in June of 1720 to 500%. Ended at 36% of Par.

South Sea Bubble & ange hy Po 1711 - South Sea Company Established Similar Immed Boom to Frame Boom not my in Lands Sea Co. but also in other comp ands. Height of Speculation in 1720: Shares of South Sea Company reached why 1100 %. Similar spectartes. 2 00 companies founded in Syears in 1720 there came a breakdown in prices The Spewlatic crises of the period of commercial capitalism. Can be uplaned in tenno of O psychology of early capitalism O youth of financial molitution O lash of knowledge so to how to control them

Lange dy Pa Mer were absolutely no rules of management developed. @ Pumple of sound pravial management dicknot exist. 3 Management never took steps to present facture Novelty of the Capitalist Sport. The majimization of money profit. moral restreents imposed by Scholastin & Canonistin dortrie, Crope down & majernizing of money profit become Commenced enses during This period. 1763 - to enlled North Euro Jeean Gredet Crises. Centers in Holland VN other Germany

dange Ly & 1772 - London Commercial Crices. Connected with the lude mer autilism Commercial crisis 8 18 70 Century - were commontalin Ricardo: Chapter where he discusses employment. Chapter XIX. a Sudden changes in the Channels of trado Commercial erice between the enses fluctuations X due to destruction of essence of

1840 | Lauge by Pg Crises in 1818 all associated 1818 with the Wapoleonia 1815 Wars. Blockaade: 1810 Continental 1815-) England & France which 1818-19) largly are epplaned in terms of the aftermath 1815 - Demobilization I considerable def 1818.19. a deflaturey 1 1822 a remal the start of the modern Industrial Cycle: This count for britain for must be brought back in England to 2 mg pag of 18 Teentery

Industrial Brain April 9, 1942 Cycles: In For. 8 Eng. mounting evidence that I a busines eyele prior to 19th centry. to middle of 18 th Centry. Mr. Schempeter: R. E Statester. Busines Cycles in Bostain in (8 to Centry: 19th century: desveg andereg crisis of Napoleonia was etc. 1822 to 1914 - 10 Business Cycle in England. Table of dotes of these Cycles. Cycle - It of Berenin Durctin 1822-31 1825

Lange do Pe Bussian Gules Duration Epparasa Centraction Remove Dates: 1822-31 1825 11 5 1832-42 1836 (27!) 1843-51 5 1847 9 1852-61 6 1857 10 1862-68 1866 7 5 2 1869-1879 1873 11 5 6 1880-1887 5 1882(34) 8 3 1888 -1894 3 1890 (93) 4 7 1895-1902-1900 6 8 2 1903-1909 1907 5 2 1910 War. 1913 Post War: O Demostry atin Crisis 1929 11 7 4 1922-1932 1937! - 4! 1933 - War: I doubt as to the Efact timing of there Egyptes: Literature in History of Business Egiles. Fioneer Writer n Buscies Gules was Juglan: For writer

Juglan: forlong perion Kange to P3 his book on Business cycles was the Classic. Tough - Barondershi - 1894 - On the Industrial Cins - Jeman Tople (ealies) Commercial Corses Yather J. Modern Busing Cycle Prevry. Contemporary leteratures:

1. Speetoff: Kniew: Table that
1. Speetoff: Kniew: 7 Spietoff. Jesure: The Panodir Ensa of Onerproduction (1) st systematic ey sattion available: pauluthoris Jesus's dates. Bon Start with 1822.

dangeds by Penorlauty Constant penny & constant ampletudo. a a definato Oars underlying the 5 amplitudo. Unot a constant duration. knotion fluctuates between I and Il years. @ & a constancy of amplitude: notwithstanding I a certain to designate the cylinal Johnse phenomena Variability in flength of period of Centractio + expansion > than that of period of cycle.

Lunge L5 P5 M: 8.8 May: 4.7 Centratu Mcust = 4.1 nove variability Verp = /yr. than in in Ment = 1,58 period of Mep - 2.13 expansin Ment = 3.85/ omstelly in total length of eyele Deographic Espansion of different cycles! Mixture Begularety of Hesterical Unqueres mixed in Busines Cycles: Each me Cerubies these two faults.

(Langeds le Earl Cycle is not unque: Common fatters & common Causel mechanism orcharged by unique 1822-31 - England - based on expansion of Fron vidustry shipbuilding I canals + g eswerks. 1832. 42 - Tanze seale unemployment in England + great Social distubence Charlists movement: / United States n revolutions of 1848. 1893-53; Chiver Market + Railroad Censtructur: Bron Steel + coalmining Crises in 1847:

Lange to 8 Depression + Gerenius spread to France o United States. 1852-61 California Jold Rush; australian gold. Large Emigration from Europe to W. a. + australia Exput trade: Machoals! Shipburding the Electrical Telegraph: R.R. Bulding wills. Crimean War: Shows relatively lettle affect report the cycle: 1851 Dep. Bernin Eng. Dr. U.S. ger. affected why Slightly 1862.68: aid War in U.S. enterryto it would course of affected the British leptile industry Dar Thade with Egypt India + Brazil 1866. Eng, Dr 2 molater

contraction in the any Laurets By Jermany is affected by the 1867-79: Enzi Dy U.S + U. S. Efpansin connected with 11. B. Bulding Hoden Steel making process: Beginning of oil indiestry Trans- Prussian was had no paticularly great effect upon the cycle. Period when gaming fully enters Endustrial Capitaline. One of the longest reverest depolining in the 17th Century: Depolinin in agnulture 1880-87 New Eyele: Very short prosperty long depension Same 188-94

Expansion in both (Tanget 8).

Expansion in both (Tanget 8). Myrestin & U.S. 1888 - 94 Gite Brief Knoppenty 1 Long depressed: Spinis & So. Europie Next two Cycles characterized log long + pronounced property + whent+ mild depressives: 1895-03. New gold So. A tricis Def. of Electric Andresty. Her of Cherical Industy. Sine 1895 the devof the electical understy are the dominant factor in the

Caze 25 8 1922-29 automobiles; Electrical Industry Cespinster Ref Radio) In 4. A This was the only prosperity where et wasn't accompanied by nong pries: Beressia in 1929 was the severent ande providly that of 1873. M. S. + Germany Hurlest Hit. (Intain Less + Still bes frame: Both Jegan + the Sovet Union Espanded during this period

Dange: 26 P. April 19 1842 repeated table of previous day: remarkable regulants not L disturbed by minorewars & political swent. lengthor Sentraction more rande of entraction speniods of entraction speniods of expansion. Amplitude raies expansions more morked + contractions more marked. 1929 + 1873 the severet depression. Cycle after 1933 is characterized by a great amount of government intervention Course flat cycle is therefore & different from others; consume

Johns of regulating to Pz volume of employment. The regularity which can be found in the relative bugth on one slice of the intensity: Lenger depressions the more severe: I onger booms the more pronounced History of besiness cysles: I an alterature of eyples with prevailing expansion & cycles with prevailing Centraction History of 19th + 20th centery Capitaline into cycles with presaling expansion +

Jange Lo B3 anteaster Report and 20 1822-12 & Epparson | 10 2.1 30. 1843-73 32 15 .4 22/ 6 20.1874-94 4 3.75 21/2 15 18-1895-1913 what would have happoned if not for the world war is rather defficielt to predut: Spietoff & Penido of Change. Succession of periods of prevailing upparsion & primeling Centralins 1873: Literature that you cannot expect remal, 1995.1913- Solief the business Cycles were a thing of the

(daysets by Period of prevailing of some led to beligguestion that we should deavers the leng wares or long eyeles. Kundratief -: Long waves of Eunain life: Rever of Ecenonic Statistics 1935. frice index #10 Interest Rates Wage houston leto + he distinguished a wave like morement which spectly dolo lenform to these periods for cycle of 50 yrs.

Change Lets Kndratuef: I cyce: 1780000-48 44-51; 1870-25 Il cycle 184451 = 1890-96 ; 1914-20 III cycle 1890-96 m Romdratief , Spoke of Leng wares believed they harest regularity Cempable to They Burness Guler. Kondratief Gyell in Schumpeter: Juglan Cycle: orghenany business cycle.

after Kondratief Junge ha & Jashronable to discover all kinds of large cycles Buzneti: Book on secular dustin of a Businers Cycle va Business Cycles being solved not sufficient investigation + searcity of data. Even the Empirical problem is for from being sthred: Statesteral Manipulation of Data.

Langu Lo Pr Beznets eyele can be deroun is determined by the the type of trend Sheptind ween that talk of long eyelesis bunk + that it is manifactures by statistical proceeders have says I a similar phenomena deserved by non statistical Historians. there may be a terminological Kryundert ag aust calley it a Explanation of these ling ageles in terms of goldproduction

History of gold production: Hange to be now attempt to correlate at with the long cycles Historical anderts in the discovery ofgold as the motivating face undelying the long cycles. Carrell: Chapter on Bussiness Cycles: argues that the price level in 1850+1913 Clark finds that the fine level in these two years happens to be the Rame. 2 wantity of withert of goods + services were ased + g of money must have To keep up - track.

3 % imesore in dange do la gold pokerkione period: Semetimes gold stock mercon much more rapidly & Long Cycle due to Historical accedent

We were desiresing the April 14, 1942 So called Kindrotief eyele. Whether it is to be called a cycle or not is a matter of debate: Evidence is seart - only 2 's such Namow sense IK undratief cycle whether or not we can fined a specific cause: Carrel's flute deplanation of Kondrontief eyele - increase output in world's gold stock. of this holdset is not a cycle but a flactuation: Non-economic Basis therefore of Cassel's explanation. Casel's explanation challenged. argument held by other Marden + Keneson: O Statestical: attacks seridence
Attacks the basis upon which Canel's saw is supposed to rest.

Second creticism in plane to P. tems of economic casesation. Land regardo prime levelas lependent upon the g. of gold.

Deither gold is mey
moretary medium.

D g. of morey in a gred. Kentern: gof morey in J. Rem proportional & g of gold. lenegasted Silver of Paper Honey

ly Silver of Paper Honey

Const of the Samuel

Grantity of money

of the Samuel

Const of the Samuel Palling pries Esure deforming - rising Jones prevalency booms.

Lange Ly 3 causation not semple. i other epplanations: 1 Preparation for war. Knysentiel upopings in period of great gremment demand. Kungo January: (1) Weak erideme. Deshwied progress. due partly to Kongratief. championed by Schempeter. explanation of dang nun flershatoro associated with major unovations. did not come were not distributed I qually but so came in great bunches

Lange L, My 1) opplication of motor power of teptela indeesty. O Indiestrial serolating 1775-1820. post repowing in (a) slackening of pare of tech progress until the transfertation revolution. Revolution Upsning 118 93-73 all exavery of busines ageles in this period in Conhectery with R. R. building

1874-94 period [Langed, 5 90's new revolution: Electricity: Electropeation Otranspetatu (1) Combustable engene: End of 19 the beginning of 20 th. The chemical I undustry . Dehrugeter labelo 1st Kondrotief cycle: privat of the industrial revolution. 2 d ever + steel. 3 - I electricity & channely. most current + generalstylmatin I fluthotions.

the long non Kaye L, & Joint Juefether causes are due to accepted courses and acycle; feest a fluctuate. if due to accidental courses I consin mechanism may came the delay of insoration of telench them it economically famable times. Terminology. cycle destinguished from flustration cycles of periodic. periodici phenomena me which remore in equal reterral of time with either constant indefenately Changing unplitude of philliation.

Cyclical rounrent Kanze Lolo, period and censtant amplestende. Cycle & periods efflamed My a causal mechanian flutuatus charges which cannot be effluined by a sperific causal mechanism. Met as regular as a cycle. Regulanty of remounce When I a defenato causal mechaniams; May happen that pure random e suses produce regular fluctuation may appear to be exclude

Lange of P8 Sletshy: Eunometrica 1929 ~1939 E of vandom causes as a cyclical phenomena Hitwith standing it Cartain equilanties may be efflancy when by cumulations I random thance, Knywhel: the question of whether the Jaglan eyella is the many eyele Maybe there is Tillolle Cycles: which we separate or have to be added. 11 r. Ketchen : 1923 . R. I Statistics Italy on money maket. Gules trend in Euro

Cycle of 40 ments / Lange L, 19 Com + Releton Prof. Phtshelf: observed the same cycle: Callo the Kitchen cycle the basis cycle: Mtchell'o curlusii smewbat similar : Afterely destinguisted min cycles magn 1 all short non eyele are heavily weighted with pries, stock + commodify igalenest vate. DI hang men Cycles based refor unemployment -output data: European Sludie,

Lange of P10 Stack major fluctuature of a n3 such minor fluctuature. Suffering of Statestial Enderse forstot Egele: N. S. Empirical endance for Shat eyele puty good.

Dect. om Short Cysles. | dange 28%.
I Empiritel endenie | April 16, 1942 2) Whether it is exple i merely a fluctuation. I empirical endered m the United States. These fluctuations largely have been found in the field of prices: Tunhiding interest nates]. Lask of evidence in other Countries. I me endence un Gogland: Shows some thing like short run fluctuation. Short men fluctuations accumulation of vandom effects; causes summan to dhetakees

Cyclical andone Lange & 8 % mechanism in terms of arrundostien + decelmulation of enventories . Inventories held by burns become larger than a normal inventory which results in cutting of production This may account for the not finding of the Short Cycle in Industry: European industry does not work for inventories as compared with the United State where the keeping of inventories is a major part of becauses

Schumpeter speake in Lange 18 13 Kudvertief Juglar + Betchen cycle. Will the descess the Juglar cycle framarely and work on this basis also the short eyel flictuston I further point: Blesides the business eggle we find in Our economy particular cycles which are strongly independent of the business Cysle. Call Ithen (lutenomous cycles. (Com Hog) So called Hog yele Ezebeal

Com Hog Cycle Lange 28 by ratio of hoy pines to com pries. high notis - enoungement to produce hogs & midase demand for com , votes unfaroroble, hop thrown on market fall in protect bog - construction C. 8-27 months Epits in beef cattle I well pround Exists in orch and products potatoes. These autonomous cycles exist in agriculture autenomous fue cycles in Ship bulding. High votes - stemulates shipbuilding - too spess. Supply union - proget fall - becemes less profetable Ships wear out I a searcity profitable.

(Sulding Cycle: Lange 18 5 Kindential building: Semilar Causal mechanismi. High vents: new douses. Supply increases rent fall - building stops. 17618 yrs are age length. Riggleman Date in 1326? Hann. Building cycles! (830)-42 -16-17! 1-1 3 - 9 1843-63 - 2 \$ 4 -16 1864-77 - 18 1878-1899 - 22 4 -18 1900-1917 -18 2 7 1818-1939 -16 6/46 1934 6/108 18 ms 23 17.66 2.6

Riggleman Cht. / Days & FG Reaps. Duratus 1826 - 42 1836 17 1853 1843 - 63 21 1864-77 14 1871 1878 - 1899 22 1890 18 1909 1900 - 17 1925 1918 - 33 16 1734 18 yrs. Industrial and Resolutial Construction Hourson's argument that I a flowerly between duly a special + Bulding bet endere: Teyros in Shipbulding & Building Relation between business eyple and autonomous cycles.

Social consequences of the Quanien eyels Not autonomous but which our le explained as consequents Cycles in the morements of jopulation: Birth rate & comade with business egiles. Dorothy Thomas: Social Asperts of Business Cycles. Inningration Buch Kato Death Rate Lin corlie gules - behaves autonomous 1929 Business eyele had no the businessen Migraturo affected. Period of expansion period If geat movements Criminal Statistics # 5 trongeriors against property.

Timber dismaning Lange 18 P8 of Empirical aspects Start discussion of Theory of Business cycles: Theory a resent development. Older writers wrote about the crises - I notent framual breakdowns. Thatis Now designer start dates it was discovered that these enses were not independent Nate the concept of bearing eyele. Strady of repowers the theoretically difficult fast.