Index

over total consumption, 300 agio, 430 appropriable things, 22 appropriation of scarce things, 33 arbitrage, 127 arbitrage assumed to be possible, 146 arbitrage, brings about equilibrium, if no numeraire, 146 arbitrages made on bills of exchange, 432 arts and sciences distinguished, Coquelin on, 12 asset holdings, analysis of consequences of changes, 161 auction of total stock, special case, 175 Auspitz and Lieben on price determination, 495 Austrian economists, XIII average cost, components of, 227 Bagehot, Lombard Street, 383 balance of the Cash account, 214 balance of trade, 431 banknotes, 422, 425 Bastiat, Frédéric on justice, 37 bills of exchange, 426 bills of exchange negotiated with a banker, 219 bimetallism at a fixed ratio of quantities, 392 bimetallism at a fixed ratio of values, 392 bimetallism changes into gold monometallism, 414 bimetallism changes into silver monometallism, 414 bimetallism, mathematical theory of completed, 405

aggregate saving, the excess of total income

bimetallism, when practicable, 411 Blanqui, Adolphe on economics definition, 9 book credit, 420 bookkeeping, Cash account, 216 bookkeeping, double entry bookkeeping, cardinal principle of, 215 bookkeeping, Fixed Assets account, 216 bookkeeping, Working Capital account, 216 Boutron on rent, 371 business inventories, 216 business methods of accounting and inventorying, 213 buyers make offers to buy at higher prices, xxxvi, 42 capital and income, distinguished, 194 capital formation, equilibrium of, 492 capital formation, macroeconomic analysis of, 489 capital formation, theory of real phenomena, xv capital goods assumed indestructible and imperishable, 301 capital goods assumed perishable, 301 capital goods in production model, old ones only, 232 capital goods lent in money in reality, 232 capital goods properly speaking are artificial, 198 capital goods properly speaking are destructible and perishable capital, 265 capital goods properly speaking are products and are consumable, 198 capital goods properly speaking generally hired in money, 263 capital goods quantity assumed to vary, 260

511

More Information

512

Index

capital goods summed in numeraire units, 489 capital goods that yield consumable services, 212 capital goods, condition for maximum effective utility of services, 307 capital goods, defined, VIII capital goods, demand for, 260 capital goods, determination of prices of, 260 capital goods, existing movable, determination of prices of, 310 capital goods, gross and net income of, 261 capital goods, market for, 260 capital goods, movable, 196 capital goods, new, generate maximum satisfaction, 307 capital goods, new, maximum utility of, 492 capital goods, new, produced in disequilibrium, 280 capital goods, new, tatonnement is stable, 293 capital goods, properly speaking, 196 capital, defined, 193 capital, key to the whole theory of, 289 capital, lending in kind, 289 cash balance, 380 cash balance, desired, changes in amount, 388 cash balances, desired, 383 checks, 423 circulating money, 213 circulating money, saved and spent, 204 circulating or working capital, defined, 213 clairvoyance, 46 clearing-house for exchange bills, 432 coefficients of production assumed variable, 320, 321 coefficients of production vary with the quantity produced, 507 commercial paper, 421 commodities, defined, 42 commodity as circulating money and money savings, 378 commodity as numeraire and money, resulting simplification and realism, 169 commodity newly introduced, consequences in reality, 170 communism and individualism on the distribution of wealth, 35 competition a self-activating and selfregulating mechanism of transformation of savings into capital properly speaking and of services into products, 308

competition in the market is the practical solution, 66 competition is not the only possible system of economic organization, 438 competition, exchange and the mechanism of. 46 competition, in organized markets, 42 competition, limits to its applicability, 249 competition, suppress impediments to, 248 concepts of market structure and behavior in exact conformity with the facts, with observation, with experience, 208 Condillac on value, 181 constancy of the total quantities, 161 consumers' surplus, 497 continuous utility or want curves, 149 Coquelin on science and the arts, 16 Coquelin, Charles on economics definition, 11 cost of production determines the quantity and not the price of the products, 474 Cournot on monopoly profit maximization, 448 Cournot on profit maximization, 446 credit, and new capital goods, 263 criers of prices, 42 crying out of prices, 42 Darwin on Malthusian law, 324 data of the problem do not change during tatonnements, 279 definitions of economics, 3 demand and supply functions, how determined, 170 demand and supply functions, partial, existence of, 170 demand and supply, reciprocal, 105 demand curve, expresses disposition to bid, 172 demand curve, expresses reality, 172 demand curve, slope of, 79 demand curves, continuous, 56 demand curves, explanation of, 77 demand curves, partial and total, 56, 172 demand curves, partial, addition of, 478 demand curves, total, properties, 102 demand for money, 382 demand or supply, how determined by exchanger, 139

demand schedule, 55

demand, partial (individual) function, 54

Index

513

demands are functions of several variables, 497 demonetization of gold, 393 demonetization of silver, 393 depreciation of capital goods, see capital goods, depreciation of desired cash balances, 383 destinies, of persons, 35 Destutt de Tracy on tax on rent, 460 determinants of prices, essentially variable, 114 disequilibrium prices at which non-virtual profits or losses are made, 233 disequilibrium prices, production, and sales, 229 disequilibrium quantities produced, 236 disequilibrium sales in product markets, 229 dispositions to bid, deduced from utility functions, 135 dispositions to buy or sell, 53 distribution of output among the productive services, 509 distribution of social wealth, an ethical fact, 34 distribution of social wealth, debated, 35 distribution of social wealth, equitable, 32 distribution of wealth, effects of different systems of, 456 division of labor, 30 Dupont de Nemours's Physiocratie, 331 Dupuit confuses utility curve and demand curve, 454 Dupuit wrong on maximum sacrifice, 453 Dupuit's erroneous measure of utility, 453 each commodity has only one exchange value in equilibrium, 152 economic advantageousness, 18 economic equilibrium, complete picture of. 488 economic facts ruled by the principle of free competition, 373 economic theory, defined, VIII economic theory, physico-mathematical science, 27 economics as a natural science, 10 economics as an ethical science, 10 economics, as defined by Smith, 4 economics, Blanqui on normative and positive, 14 economics, different definitions, 11 economics, not entirely a natural science, 7

economics, not simultaneously natural and moral, 10 economics, object, divisions, limits, 3 economics, other definitions, 9 economics, Say on objective of, 7 economics, schools of, 480 economics, Smith on objective of, 5 economist's right and duty, 9 economy, how its various parts function together, 488 effective demand and effective supply, defined, 47 effective demand, defined, 43 effective supply, defined, 43 empirical coefficients of demand and demand functions, 67 English School determines neither wages nor interest, 358 English school on expenses of production determining the price of products, 339 English School on rent, wages, and interest, 337 English School's profit, 369 English theory of rent, 503 English theory of the determination of the prices of productive services, 369 English theory of wages, 362 entrepreneur functions of, x entrepreneur a fourth person, entirely distinct, 207 entrepreneur, agricultural, 211 entrepreneur, commercial, 212 entrepreneur, functions of, 211 entrepreneur, industrial, 211 entrepreneur, lacking in Say's theory, 370 entrepreneur, not as such a capitalist, 367 entrepreneurs in equilibrium make neither profit nor loss, 210 entrepreneurs, in production, make neither profits nor losses, 232 entrepreneurs' pricing tends to bring about equilibrium, 245 equality of the effective supply and of the effective demand, 107 equations of capital formation, how deduced, 268 equations of equality of the average cost and the price of new capital goods, 270 equations of exchange and of maximum satisfaction, 106

More Information

514

Index

equilibrating process in all markets, XII equilibria, multiple, two commodities, 71 equilibria, multiple, in exchange of two commodities, 74 equilibrium in production equality of the price of products and their average cost, 485 equilibrium in production, defined and conditions of, 209 equilibrium in production, ideal state, 209 equilibrium in the market for products, how reached, 483 equilibrium of capital formation, 381 equilibrium of circulation, 380 equilibrium of exchange approached more and more closely by price tatonnement, 143 equilibrium of exchange, found by the market through competition, 131 equilibrium of exchange, general, conditions of, 145 equilibrium of production, 380 equilibrium of production, automatically attained by competition, 229 equilibrium of production, equations, 237 equilibrium prices the same before and after exchange if no disequilibrium transactions, 158 equilibrium prices, equal to the ratios of the raretés, 113 equilibrium prices, necessary and sufficient elements for the determination of, 145 equilibrium probably always closer after the second round of tatonnement, 479 equilibrium solved empirically in the market, 139 equilibrium, preliminary in capital goods model, 284 equilibrium, stable, in exchange of two commodities, 73 equilibrium, unstable in exchange of two commodities, 73 equivalent distributions before and after equilibrium trade, 161 exchange bills, market for, 432 exchange equilibrium, solved empirically in the market, 124 exchange of savings for new capital goods, 489 exchange of several commodities for one another, 118

exchange of several commodities, equilibrium ordinarily unique, 177 exchange of three commodities for one another, 119 exchange rate, 425 exchange rate of any one place on another, 431 exchange rates, foreign, general formula of, 428 exchange takes place at equilibrium prices, IX exchange, analysis of, general and scientific, 124 exchange, equations of according to Jevons, 185 exchange, equilibrium demonstrated, 124 exchange, geometrical representation of, 469 exchange, maximizes utility, 110 exchange, multi-commodity case, 133 exchanges by Book credit, 420 exchanges by Commercial paper, 421 exchanges with Banknotes, 422 exchanges with Checks, 423 exchanges, ways of making without the intervention of metallic money, 420 expenses assumed proportional, 227 facts and experience, provide accurate notion of competition, 201 facts corroborate theory, 392 facts, natural and human, 15 fiduciary or paper money, 424 Final Degree of Utility, Jevons on, 186 fixed capital, defined, 213 fixed expenses treated as proportional, 392 foreign exchange brokers, 431 franc, a word for a thing that does not exist, 165 franc, quantity of silver and unit of value, 163 free competition a principle of economic advantageousness, 248 free competition demonstration does not consider justice, 249 free will, 16 free will subject to mathematical laws, 379 free will, influences production and distribution, 32 freedom of entry and departure of firms assumed, 249 freedom of exchange and production, maximizes utility, 248 French School of economics has no theory, 371 functions or curves with concrete coefficients

in study of money, 402

Index

515

Garnier, Joseph on economics definition, 9 general and scientific form of analysis of exchange, 124 general system of economic phenomena, concrete figures for, 316 Goschen, his Theory of Foreign Exchange, 432 Gossen, Hermann-Henri, similar theories, v greatest possible satisfaction of wants achieved under free competition, 247 hiring out of a capital good, 206 income goods or consumer goods, 202 income goods, defined, VIII income of a capital good, the price of its service, 260 income, characteristics of, 206 indirect exchange to direct exchange, passage from, 168 indirect price to direct price, passage from, 168 individual a holder of two commodities, dispositions to trade, 102 individual learns prices when enters the market, 120 industrial operations, 30 industrial practice, expressed through accounting, establishes the theory of production, 216 industrial production, 29 industry, theory of, 18 institutions, theory of, 18 instrument of measurement of value and wealth, role of, 166 insurance of capital goods, see capital goods, insurance of interest, rate of theory of determination of, XIV intervention of money, hypothesis that conforms to reality, 166 Jevons on money and the mechanism of exchange, 416 Jevons, W.S., similar theories, IV justice, 18 justice and economic advantageousness, conflict or compatible, 37

labor, specialized, the exceptional case, 341 laisser faire, laisser aller, when appropriate, 8 laisser faire, laisser aller, where applicable, 249 laisser faire, laisser passer, 32 laisser faire, laisser passer applied to a competitive industry, consumers obtain the greatest possible satisfaction, 446 laisser faire, restrictions on, 438 laisser passer, laisser aller, where applicable, 250 laissez faire, laissez passer, 8 land income, also called land services, 195 land is natural capital, 197 land is unconsumable capital, 197 land services, how value of comes into existence, 328 land, labor, and capital, defined, 192 land, man, and capital goods properly speaking, cooperate, 206 land, net product of, 352 land, quantity of, not increase in the progressive state, 323 land, value of in a progressive society, 462 landed capital, examples, 202 law of effective supply and effective demand, or the law of the determination of equilibrium prices, two-commodity case, 66 law of great numbers, 161 LAW OF SUPPLY AND DEMAND, 154 LAW OF SUPPLY AND DEMAND AND AVERAGE COST, 246 law of the cost of production, or, of average cost, 192 law of the determination of the equilibrium prices, 143 law of the determination of the equilibrium prices in exchange and production, 245 law of the establishment of the equilibrium prices of new capital goods, 294 law of the variation of equilibrium prices, 114 law of the variation of the equilibrium prices, 154, 245 law of the variation of the prices, generalized, 252 laws of a science should be demonstrated, 480 laws of economics applied to real problems, 480 laws of the establishment and variation of the prices of capital goods, 311 laws of the variation of prices in a progressive economy, 320

macroeconomic data example, 316 Malthus made contribution, 325

More Information

516

Index

Malthus on population, 323 marginal productivities are equal to the rates of remuneration, 509 marginal utility, rareté, explained, 471 market defined, 42 market for capital goods, 260 market for money capital, 381 market for movable capital, the stock exchange, 313 market for products, 208 market for services, 207 market held continuously, 315 market held periodically, 315 market is like a lake agitated by the wind, 318 markets, competition in is the general case, 42 markets, examples of, 24 Marshall on monetary system, 425 mathematical method to demonstrate theories, 373 mathematical method, rational not experimental, 27 mathematics, necessary for economic theory, XII, XVII maximum effective utility of new capital goods, condition of, 301 maximum of utility by competition, 248 maximum satisfaction condition determines equilibrium of exchange, 132 maximum satisfaction of wants, condition of, in capital goods model, 298 maximum satisfaction of wants, under competition, 247 maximum satisfaction, raretés proportional to prices, 482 maximum utility of new capital goods, condition of, 492 medium of exchange, necessity for, 378 Menger, Carl, similar theory, v Mill on productive services, 341 Mill on rent, 346, 368 Mill on wages, 362 Mill's error on the multiplication of products, 343 minimum wage, reduces employment, 440 monetary standard, multiple, 417 monetary standard, stability of, 416 money and prices, not always proportional, 425 money and prices, proportional, 425 money capital, 263 money that enters the till, 214

money, abstraction from, 168 money, circulating, see circulating money money, demand for, 382 money, fiduciary, or, paper, 424 money, intervention of and intervention of a numeraire, analogous, 167 money, minting or demonetization, 388 money, problem of value of, 378 money, supply of, 382 money, theory of, 381 money, theory of, principles, 418 money, two commodities used simultaneously as, 394 money, value of, 377 money, Walrasian period analysis of market for, 384 money, why held, 379 monometallism and bimetallism, advantages of, 408 monometallism, value of standard solved automatically in the market by free competition, 392 monopolist maximizing profit, 445 monopolist, definition of, 442 monopolist, tatonnement by, 444 monopoly and price fixing, 440 monopoly selling at average cost, competition eventuates in, 392 monopoly selling at the price that gives maximum profit, competition eventuates in. 392 monopoly, consequences for consumers, 446 monopoly, natural, 249 monopoly, theory of, 442 moral science or ethics, 18 movable capital, 289 movable capital goods, 212 movable capital goods, before sale, 202 multiple equilibria possible in the multicommodity case, 212 needs of the State, how provided for, 456 new capital goods, equilibrium price of, 289 new commodity introduced, 173

new commodity, all stock offered at any price, 175

new commodity, equilibrium after introduction of, 172

non-virtual capital goods sold in accordance with free competition, at prices that differ from the average costs, 292

More Information

Index

517

non-virtual production in disequilibrium, 229 non-virtual production increases, 487 non-virtual production of disequilibrium amounts of capital goods properly speaking, 280 non-virtual profits and sales, 440 non-virtual tatonnement, see tatonnement, non-virtual numeraire capital, 263 numeraire capital market, 288 numeraire commodity, average cost of, 232 numeraire defined, 162 numeraire, becomes money standard, 206 numeraire, pass from one to another, 162 numeraire, prices cried in terms of, 146 numeraire, reduces number of unknowns, 139 numeraire, role in expression of prices in exchange, 129 offer curves, 495 partial demand curves, 56 partial demand, equation of, 97 path dependency, eliminated in production model by assumption of no depreciation or new capital goods, 223 path dependency, not in the model of production, 223 perfect or general market equilibrium of exchange, 124 perfectly organized markets assumed, 43 permanent market hypothesis, 317 permanent market, always tending to equilibrium without ever arriving there, 318 personal capital not bought and sold, 198 personal capital or persons, 196 personal faculties, characteristics of and prices of, 264 personal services or labor, 196 persons, natural and consumable capital, 197 philosophy of economics, 15 philosophy of science, 15 Physiocracy, 4 Physiocrats, 333 Physiocrats, critique of their doctrine, 335 price equal to average cost in equilibrium, x price curve, 256, 386-9, 398, 438 price curve of (A) as money, 385 price curve, defined, 385

price curves, 253 price discrimination by monopolist, 448 price discrimination, occurs frequently, 450 price fixing, effects of, 439 price formation in a single market, 46 price may remain above average cost, 318 price of labor, 198 price of productive services reacts on the price of the products, 340 price of products in a progressive economy, 325 price of products is determined on the market for products as a function of their utility and their quantity, 339 price, only one in equilibrium, 110 prices lowered by entrepreneurs if there is an excess supply of new capital goods, 372 prices lowered by suppliers of services and consumable products if there is an excess supply, 372 prices of existing movable capital goods, 310 prices of factors, how change in progressive society, 328 prices of land, 311 prices of land parcels, equal to the quotients of their gross incomes divided by the rate of net income, 264 prices of new capital goods equal to their average costs, 278 prices of personal faculties, 311 prices of products and the prices of productive services depend on each other, 497 prices of products equal to their average costs, 277 prices of services in a progressive economy, 326 prices of services, Say on, 370 prices raised by capitalists if there is an excess demand for new capital goods, 372 prices raised by demanders if there is an excess demand, 372 prices, cried at random, IX prices, cried out, 42 producers' surplus, 498 product differentiation, 450 production, immaterial in Physiocracy, 335 production, non-virtual, 474 production, non-virtual in disequilibrium, 229 productive services, defined, 192 productive services, prices of, 192

518

Index

products that can be multiplied without limit, none such, 339 products, equations of the total demand for, 276 products, market for described, x profit maximization, Cournot on, 446 profit or a loss, non-virtual, 221 profit, English school misunderstands, 368 profit, is risky, depends on exceptional circumstances, 367 profits are actually made in non-virtual economy, 210 'profits' are incomes or movable services, 196 profits, non-virtual, 440 progress possible due to increase in the amount of capital goods properly speaking, 323 progress, economic, 321 progress, indefinite, is possible, 321 progress, technical, 321 progressive state, increase of capital goods, 205 property and taxation are intimately related, 463 purchase and sales curve intersection, 172 purchase curve, 172, 254 purchase curve if total stock offered for sale at any price, 175 purchase curves, 253 quantities possessed, effect of changes of, 154 Quesnay, Tableau économique, 331 rareté curves, 471 rareté curves, summation of, 497 rareté is individual, 114 rareté, a measurable magnitude, 113 rareté, and physical variables, 114 rareté, average, 114, 153

rareté, average, 114, 153 rareté, average, 196 rareté, defined, x1, 21, 113 rareté, independently discovered, v rareté, marginal utility, explained, 471 rareté, the cause of value in exchange, 113 rareté, total want curve, 497 rareté, varies with quantity possessed, 117 raretés proportional to prices, 482 raretés proportional to the prices in a state of maximum satisfaction, 474 raretés, virtual, non-effective, 151 rate i of net income, determination of, 271 rate of interest equates supply of and demand for money, 382 rate of interest, the price of hiring numeraire capital, 295 rate of net income decreases markedly in a progressve society, 328 rate of net income in the market for those capital goods, determination of, 295 rate of net income, equality of for all capital goods properly speaking, 278 rate of net income, how known, 263 rate of net income, ratio of net interest to price of capital goods properly speaking, 328 rate of net income, determined by equation, 309 raw materials, 196 reality of things, approach to, 169 reality of things, closer approach to, 317 reallocation of resources a slow process, 318 reciprocal nature of an individual's demand and supply, 105 redistribution of asset holdings, effects of, 157 rent, English theory of, 345, 503 rent, English theory, mathematicized, 352 rent, facts of experience, 356 rent, term used in ordinary sense, 199 restrictions on laisser faire, laisser passer, 438 Ricardo on incomes, critique of, 337 Ricardo on tax on rent, 460 Ricardo's theory of rent, 368 Ruchonnet, Louis, Swiss statesman, helped Walras, III sales and purchase curves related to the equations of exchange, 176 sales curve, 172 satisfaction, maximum, point of theoretical departure, IV savers are conservative, 312 saving functions, macroeconomic aggregate, 269 saving, individual, 267 saving, non-virtual in disequilibrium, 268 savings function, empirical character of, 269 savings in money, 378 Say on economics definition, 7 Say on objectives of economics, 7 Say on prices in a progressive society, 326 Say's definition of economics incorrect, 8

scarce things, social wealth, 20

More Information

Index

519

scarcity, doctrine of, 183 science, applied, an art, 18 science, moral, ethics, 18 science, the arts, and ethics, criteria of, 18 sellers able to lower their prices, 42 sellers make offers to sell at lower prices, xxxvi. 42 services that are consumed directly, 250 services, consumable, 194 services, consumable, productive, 212 services, defined, 194 services, effects of introduction of new, 253 services, equations of total supply of, 275 services, market for, described x services, productive, 194 slavery, 313 Smith, Adam, definition of economics, 4 Smith's theory of value, 179 social economics, defined, 36 social wealth, defined, 41, 194 social wealth, four main categories, 195 socialists advocated state intervention without proof, 249 solution in real markets of the equations of exchange and production, 247 stability analysis of capital goods formation, 490 stability analysis of capital goods market, 286, 287, 292 stability analysis of markets for products, 483, 484 stability analysis of markets for services, 486 stability analysis, price changes destroy temporary partial equilibrium, 479 stability of capital formation process in real markets, 279 stability conditions for path independence, 161 stability of the monetary standard, 416 stability of multi-commodity exchange equilibrium probable, 143 stability in production, 239 stability of production model probable, 241 stability properties of a single market, 108 stability in a single market, how it occurs, 66 stability situation when new commodity introduced, 172 stability of tatonnement probable in production, 244

stable equilibrium in capital goods production, 287 stable equilibrium in real markets for new capital goods, 288 stable system, with production, 242 state as entrepreneur, 441 state intervention in regard to the distribution of wealth, 438 stationary state or equilibrium of the market, 44 stock exchange, functioning of, 43 stock exchange, the market for movable capital, 313 stocks, 193 supply and demand equality, 161 supply and demand equalization, marketplace solution of, 108 supply and demand equivalence, 160 supply and demand, fundamental law of economics, never demonstrated or formulated correctly, 155 supply curve of individual, shape of, 476 supply curves, partial, addition of, 478 supply of money, 382 supply of money equal to the existing quantity of money, 382 tableau économique of Quesnay, 331 tableau économique, criticism of, 333 tableau économique, critique of, 335 tatonnement by a monopolist, 444 tatonnement criticism refuted 479 tatonnement finished, conditions, 280 tatonnement in a particular market, 44 tatonnement in a single market, 50 tatonnement in production, 243 tatonnement in production by entrepreneurs shifting resources, 237 tatonnement in raising and lowering prices, 140 tatonnement is the practical market determination of the calculated prices, 161 tatonnement occurs naturally in the market for services, 242 tatonnement of production occurs automatically in the market, 237 tatonnement of quantities, non-virtual in disequilibrium, 235 tatonnement solves the system of equations, 140

More Information

520

Index

tatonnement takes place under the regime of free competition, 244 tatonnement, if assumed that data do not change during, 229 tatonnement, in production of new capital goods, 280 tatonnement, mathematical, 285, 286 tatonnement, mathematical in new capital goods model, mirrors real market tatatonnement, 294 tatonnement, non-virtual, leads production and prices closer to equilibrium amounts, 236 tatonnement, production, conditions when finished, 229 tatonnement, reprise of, in production, 229 tatonnements in the various markets take place simultaneously, 487 tatonnements lead prices of services to equilibrium, 281 tatonnements, a series of, 229 tatonnements, before finished start anew, 318 tax imposed directly on interest, 463 tax levied in perpetuity on State bonds, 465 tax on any type of capital good, effects of, 465 tax on consumption, incidence of, 466 tax on house rent, 465 tax on products, 466 tax on rent, direct, 460 taxation, indirect, 459 taxation, direct, 458 taxes ought to be levied only on the fund available for consumption, 457 taxes, effects of different kinds of, 456 taxes, levy only on incomes, 458 technical arts, 30 theorem of equivalent redistributions, 165 theorem of equivalent redistributions, 156 theory and practice ought to be of help to one another, 216 theory of exchange, mathematical, Walras's priority, IV theory of marginal productivity, 509 theory of production and theory of capital formation, geometric demonstration of, 480 theory of production founded on reality, 213 theory of property, 36 theory of rareté, enunciated by Burlamaqui, 182 theory of the general equilibrium in exchange restated, 161 theory of value, Say's, 180

theory of value, Smith's, 180 total demand curve, 56 total quantity in existence supplied, xxxvi, 175 trading is suspended, 44 trading should be suspended if supply and demand unequal, 44 Transactions balances of money, 203 useful things, 22 useful things limited in quantity, characteristics of, 22 utility curves and the quantities possessed, elements for determination of the price, 110 utility curves discontinuous if commodities by their nature are consumed in integral units, 148 utility functions and asset holdings, effects of changes of, 252 utility theory, Menger on, 186 utility, assumed cardinally measurable, 80 utility, effective, geometrically, 472 utility, effects of changes of, 152 utility, extensive, 78, 98 utility, final degree of, 471 utility, indirect, 29 utility, intensive, 79 utility, intensive, unmeasurable, 80

value and wealth, measurable, 165 value in exchange, 20, 23 value in exchange, a relative fact, 113 value in exchange, defined, 42 value in exchange, measurable, 27 value in exchange, measured by rareté, 113 value in exchange, true character, 151 value is mathematical in character, 26 value of land and of land services rises constantly in a progressive society, 462, 463 value of money, problem of, 378 value, a fact, a natural phenomenon, 25 value, Gossen on, 184 value, origin of, different views, 179 value, reality of the facts of, 182 values in exchange, proportional to the raretés, 251 variations in utility and in the quantity possessed disturb the state of maximum satisfaction, 116

virtual model, only one tatonnement in, 500

Index

wages, English theory of, 362
wages, English theory of, invalid, 367
want (utility) curves, continuous and discontinuous, 91
wants, satisfaction of, see satisfaction, maximization of
wealth, social, defined, 20
Wicksteed did not acknowledge Walras on marginal productivity, 505 Wicksteed on coefficients of production, 501 Wicksteed's Essay on the Coordination of the Laws of Distribution, 506 working capital, effects of creation, 314 working capital, fund for consumption, 314 working capital, fund for production, 314 521