

Index of Subjects

Numerals show only the initial page of passages concerned with the subject

- Abomasal emptying, heat-treated milk, calf 763
 Abomasum, starch concentration, early weaned lamb 222
 Absorption, intestines, effect of antibiotics, mouse 637
 Acetate metabolism, mammary gland, sow 325
 Acetoacetate, effect on urinary and tissue vitamin B₆, rat 705
 Acetoacetate, effect on urinary excretion of tryptophan metabolites, rat 153
 Acid-solvent extraction, effect on nutritive value, leaf protein 543
 Adenosine triphosphate levels, liver, effect of carbon tetrachloride and vitamin E, rat 301
 Adipose tissue, fatty acid composition, effect of dietary copper, pig 281
 Adipose tissue, triglyceride composition, calf 421
 Age, relationship between body fat and body measurements, rat 356
 Amino acid(s), *see also* Arginine, Histidine, Hydroxyproline, Leucine, Lysine, Tryptophan, Valine
 Amino acid(s), blood plasma, effect of androgens and nutrition at puberty, male calf 195
 Amino acid composition, leaf protein 537
 Amino acid composition, lucerne, soya bean 459
 Amino acid(s), effect on methylmalonic acid excretion, rat 350
 Amino acid ratio, children, Uganda 8
 Amino acid ratio, serum, malnourished pig 791
 Amino acid ratio, serum, relationship to liver composition, malnourished rat 879
 Amino acid uptake, mammary gland, sow 328
 Ammonia, production, rumen, sheep 647
 Analytical technique, determination of nucleic acids, ruminant digesta 671
 Androgens, effect on blood plasma and seminal plasma composition at puberty, calf 191
 Androstenedione, effect on blood plasma composition, male calf 195
 Anthropometric measurements, children, Uganda 4
 Antibiotics, effect on intestinal absorption, mouse 637
 D-arabascorbic acid, tissue uptake, guinea-pig 211
 Arginine, intestinal absorption, effect of antibiotics, mouse 641
 Aromatic acid(s), urinary excretion, effect of dietary protein and roughage, sheep 389
 Aromatic acid(s), urinary excretion, relation to body-weight, various species 395
 Aromatic acid(s), urinary excretion, starvation, sheep 715
 Ascorbic acid, *see* D-arabascorbic acid.
 Atherosis, effect of dietary fats, rabbit 125
 Atherosis, relationship between vitamin A status and cholesterol metabolism, rat 25
 Bacteria counts, scour syndrome, piglets 851
 Bile acid composition, faeces, effect of diet, rat 627
 Bile acids, radioactive, extraction procedure 431
 Bile acids, turnover, effect of diet, germ-free rat 429
 Bile salt solutions, solubility characteristics of fatty acids 252
 Biochemical tests, correlations with anthropometric measurements, children, Uganda 9
 Biological activity, retinoic acid, fowl 471
 Biological value, protein, new method of estimation 491
 Biological value, rapeseed meal, soya-bean meal, casein, weanling and mature rat 113
 Biosynthesis, protein, artificial rumen 468
 Blood composition, effect of change from low- to high-roughage diets, lactating cow 511
 Blood plasma composition, effect of nutrition and androgens at puberty, male calf 191
 Blood sugar composition, effect of age on post-feeding changes, calf 335
 Blood urea, effect of dietary maize supplementation, sheep 733
 Body composition, analysis of live-weight gain, sheep, 605
 Body measurements, use in prediction of carcass fat, rat 353
 Body organs, post-mortem chemical composition, malnutrition, child 783
 Body-weight, effect on long-term food intake regulation, cow 695
 Body-weight, protein deficiency, effect of feeding regimen, rat 748
 Bone, calcification, vitamin D deficiency, rat 373
 Bone composition, femur, effect of protein-calorie deficiency, child 917
 Bone injury, effect of protein level on leucine uptake, muscle ribosomes, rat 271
 Bone, vitamin D metabolism, dietary calcium and phosphorus, rat 525
 Buffering capacity, heat-treated milk substitutes 769
 Buffer system, rumen, pelleted roughage-concentrate diets, sheep 805
 Butterfat, dietary, effect on plasma phospholipids, rabbit 612
 Caecal fermentation, early weaned lamb 223
 Caecum, effect of dietary antibiotics, mouse 641
 Calcium balance, low dietary intake, pre-school child 905

- Calcium, liver concentration, effect of thioacetamide, rat 314
- Calcium metabolism, lactation, ewe 827
- Calcium-phosphorus content, serum, bone ash, vitamin D deficiency, rat 372
- Calcium-phosphorus, dietary, effect on vitamin D metabolism, rat 523
- Calf 191, 333, 421, 763
- Calorie, *see also* Energy
- Calorie balance, Tristan da Cunha Islander 245
- Carbohydrate digestion, intestines, effect of dietary hay-concentrate ratios, sheep 377
- Carbohydrate(s), soluble, dietary, rumen methanogenesis, sheep 813
- Carbohydrate(s), soluble, methanogenesis, in vitro rumen fermentation 925
- Carbohydrate(s), soluble, rumen fermentation, flaked maize diet, cow 567
- Carbohydrate utilization, pre-ruminant calf 333
- Carbon dioxide, buffering system, rumen, sheep 807
- Carbon tetrachloride, effect on liver lipid metabolism, rat 297
- Carcass fat, prediction from body measurements, rat 353
- Cartesian diver apparatus, respiratory metabolism of ova, rat 182
- Casein, biological evaluation, weanling and mature rat 113
- Catheters, mammary arteriovenous differences, technique, sow 320
- Cellulose digestion, intestines, sheep 384
- Chick 471, 899
- Child 1, 737, 783, 835, 905, 917
- Chloroform extraction, effect on nutritive value, leaf protein 542
- Cholesterol, metabolism, relationship to vitamin A status, rat 25
- Cholic acid, metabolism, germ-free rat 433
- Chromic oxide, in digestible marker, intestinal digestion, sheep 15
- Chyme, pyloric, heat-treated milk substitute diets, calf 769
- Cod-liver oil, dietary, effect on polyunsaturated fatty acid distribution, kidney lysosomes, rat 31
- Cod-liver oil, intravenous infusion, effect on milk fat secretion cow 173
- Concentrate diets, long-term food intake regulation, cow 695
- Copper deficiency, effect on reproduction, female rat 41
- Copper deficiency, histological observation on foetal resorption, rat 47
- Copper, dietary, effect on fatty acids, adipose tissue, pig 281
- Coprophagy, effect on bile acid excretion, germ-free rat 441
- Coprophagy, effect on faecal bile acid composition, rat 634
- Cow 157, 173, 443, 511, 547, 567, 695
- Creatinine excretion, malnourished pig 799
- Cyclamate, effect on growth, poor rice diet, rat 505
- Dehydrogenase activity, ileal digesta, heat-treated milk substitute diets, calf 777
- Dehydrogenase activity, rumen contents, sheep 465
- Diarrhoea, heat-treated milk substitute diets, calf 781
- Diarrhoea, relation to stomach function, piglet 847
- Diet composition, effect on digestion, sheep 585
- Diet, Tristan da Cunha Islanders 228
- Digesta collection, duodenum, apparatus 587
- Digestibility of feed, effect of degree of body fatness, cow 700
- Digestibility, protein, effect of energy level, sheep 730
- Digestion, carbohydrates, intestines, sheep 377
- Digestion, effect of diet composition and level of feeding, sheep 585
- Digestion, intestines, use of chromic oxide as a marker, sheep 15
- Digestion, starch, gastro-intestinal tract, early weaned lamb 217
- Digestion, stomach, changes in composition of ingested milk, infant rat 683
- Dispersions, oil and bile salts, distribution coefficients of fatty acids 255
- Distribution coefficients, fatty acids, oil and bile-salt dispersions 255
- DNA concentration, effect of protein level and bone injury, skeletal muscle, rat 277
- Dog 203
- Dried grass, particulate suspension, effect on polyethylene glycol distribution 559
- Duodenum, flow, effect of level of feeding, sheep 597
- Embryo, effect of vitamin A deficiency, chick 471
- Embryo, vitamin A metabolism, chick 899
- Energy *see also* Calorie
- Energy digestion, effect of level of feeding, sheep 593
- Energy digestion, intestines, sheep 384
- Energy expenditure, Tristan da Cunha Islanders 237
- Energy nutrition, effect on plasma amino acid concentration, cow 547
- Energy utilization, effect of volatile fatty acid infusion, rumen, lactating cow 443
- Enzyme(s) *see also* Dehydrogenase, Leucine aminopeptidase
- Enzyme activity, effect of saccharin and cyclamate, rat 506
- Enzyme activity, liver, iron deficiency, rat 666
- Enzyme activity, liver lysosomes, protein deficiency, rat 756
- Enzyme activity, liver, protein deficiency, rat 750
- Excretion, urinary, aromatic acids, effect of dietary protein and roughage, sheep 389
- Excretion, urinary, aromatic acids, starvation, sheep 715
- Excretion, urinary, riboflavine metabolites, man 889

- Excretion, urinary, vitamin B₁₂ and tryptophan metabolites, rat 706
- Ethanol poisoning, effect on liver lipid metabolism, rat 310
- Ethive *see* Cod-liver oil
- Faeces, bile acids, composition, effect of diet, rat 627
- Fat(s), *see also* Butterfat, Lipid, Oil
- Fat absorption, significance of fatty acid properties, pig, sheep 249
- Fat, carcass, prediction from body measurements, rat 353
- Fat(s) dietary, effect on plasma lipids and aortic atherosclerosis, rabbit 125
- Fat, dietary intake, effect on plasma protein concentration, dog 207
- Fat, faeces, effect of dietary antibiotics, mouse 641
- Fat metabolism, mammary gland, sow 325
- Fatty acid composition, effect of dietary copper, adipose tissue, pig 281
- Fatty acid composition, plasma lipids, effect of intra-abomasal lipid infusion, sheep 144
- Fatty acid composition, plasma triglyceride, effect of intravenous cod-liver and soya-bean oil infusion, cow 177
- Fatty acid composition, plasma triglycerides, effect of triglyceride infusion, cow 164
- Fatty acid composition, triglycerides, adipose tissue, calf 423
- Fatty acid(s), effects of vitamin E deficiency, rat 289
- Fatty acid(s), linseed oil, effect on sugar beet and sucrose fermentation, artificial rumen 51
- Fatty acid(s), polyunsaturated, effect on mammary gland metabolism, cow 179
- Fatty acid(s), polyunsaturated, kidney lysosomes, effect of dietary cod-liver oil, vitamin E deficiency, rat 31
- Fatty acid(s), properties in lipid and bile salt dispersions 249
- Fatty acid(s), rumen, abomasum, intraruminal infusions, sheep 871
- Fatty acid(s), unsaturated, intraruminal infusion, effect on methanogenesis, sheep 813
- Fatty acid(s), volatile, ammonia, relative rates of absorption, rumen, sheep 647
- Fatty acid(s), volatile, effect on lactation and energy utilization, cow 443
- Fatty acid(s), volatile, in vitro rumen fermentation of sugars 933
- Fatty acid(s), volatile, rumen concentration, dietary effects, sheep 466
- Fatty acid(s), volatile, rumen, buffering system, sheep 807
- Fatty acid(s), volatile, rumen concentration, relation to soluble carbohydrate and methanogenesis, sheep 820
- Fatty acid(s), volatile, rumen, effect of dietary maize supplementation, sheep 733
- Fatty acid(s), volatile, rumen, effect of level of feeding, sheep 596
- Fatty acid(s), volatile, rumen, effect of oxygen, in vitro 71
- Fatty acid(s), volatile, rumen fermentation, soluble carbohydrates, cow 567
- Fatty acid(s), volatile, rumen, production, relation to pasture value, sheep 97
- Feeding technique, effect on oesophageal groove reflex, sheep 418
- Fish, various species, composition, raw and cooked 232
- Foetus, resorption in copper deficiency, histological observations, rat 47
- Folic acid metabolism, iron deficiency, rat 665
- Food, composition and methods of preparation, Tristan da Cunha 227
- Food conversion efficiency, recovery, malnourished child 839
- Food intake, long-term regulation, quantitative significance, cow 695
- Food intake, protein-calorie deficiency, pig 794
- Food intake, protein deficiency, rat 747
- Food intake, recovery, malnourished child 839
- Food intake, Tristan da Cunha Islanders 237
- Foodstuffs 491, 533, 913
- Food supplies, Tristan da Cunha 228
- Galactose, intestinal absorption, effect of antibiotics, mouse 641
- Germ-free rat, effect of diet on bile acid turnover 429
- Globulin, serum, effect of protein intake, high-carbohydrate diets, man 403
- Glucose, intestinal absorption, effect of antibiotics, mouse 641
- Glucose, α -linked polymer, digestion, intestines, sheep 380
- Glucose metabolism, mammary gland, sow 324
- Growth, embryo, effect of vitamin A derivatives, chick 479
- Growth, inhibition by saccharin and cyclamate, poor rice diet, rat 505
- Growth, protein-calorie deficiency, pig 794
- Growth rate, recovery, malnourished child 835
- Growth, rumen, effect of diet, calf 424
- Guinea-pig 211
- Haemoglobin concentration, protein-calorie deficiency, dog 208
- Heat damage, mechanism, protein 859
- Histidine, intestinal absorption, effect of antibiotics, mouse 642
- Hydroxyproline excretion, malnourished pig 799
- Hydroxyproline index, children, Uganda 8
- Hypomagnesaemia, effect of magnesium and potassium intake, sheep 81
- Ileal digesta, properties, heat-treated milk substitute diets, calf 777
- Injury, bone, effect on nitrogen metabolism, rat 271
- Injury, peritoneum, effect of protein deficiency on wound healing, rat 497
- In vitro 51, 67, 559, 671, 925

- Iron deficiency, folic acid metabolism, rat 665
 Iron deficiency, zinc metabolism, rat 91
 Isotope dilution technique, validity with irregular dietary intakes 98
- Kwashiorkor, incidence, children, Uganda 5
 Kwashiorkor, metabolic similarities, protein-calorie deficiency, dog 209
 Kwashiorkor, significance of serum amino acid ratios, malnourished pig 803
- Lactation, calcium metabolism, ewe 827
 Lactation, effect on plasma amino acid concentrations, cow 549
 Lactation, mammary gland metabolism, sow 319
 Lactic acid, *in vitro* rumen fermentation of sugars 929
 Lactic acid production, rumen fermentation, soluble carbohydrates, flaked maize diets, cow 571
 Leaf-protein supplements, ragi diets, Indian child 737
 Leucine aminopeptidase activity, parathyroids, vitamin D deficiency, rat 372
 Leucine uptake, skeletal muscle ribosomes, rat 271
 Level of feeding, effect on digestion, sheep 585
 Lignin, dietary, effect on aromatic acid excretion, sheep 397
 Linoleic acid, dietary intake, relationship to plasma cholesterol and aortic atherosclerosis, rabbit 128
 Linoleic acid, dietary, plasma phospholipids, rabbit 611
 Linoleic acid, intra-abomasal infusion, sheep 141
 Linoleic acid, intraruminal infusion, effect on carbohydrate concentration, sheep 823
 Linoleic acid, intraruminal infusion, incorporation into plasma lipid, sheep 709
 Linoleic acid, metabolism, rumen micro-organisms, sheep 869
 Linseed oil, intra-abomasal infusion, sheep 141
 Lipid(s) *see also* Butterfat, Fat, Linoleic acid, Oil, Phospholipid, Triglyceride
 Lipid(s), fatty acid composition, plasma, effect of intraruminal infusions, sheep 711
 Lipid fractionation, leaf protein 536
 Lipid(s), intra-abomasal infusion, effect on plasma lipid, sheep 141
 Lipid metabolism, effect of hepatotoxic agents, rat 297, 309
 Liver composition, protein deficiency, rat 751
 Liver composition, relationship to serum amino acid ratio, malnourished rat 879
 Liver damage, hepatotoxic agents, effect of vitamin E, rat 297, 309
 Liver, enzyme activity, protein deficiency, rat 750
 Liver, lysosomes, protein deficiency, rat 755
 Liver, nucleic acid metabolism, riboflavin deficiency, rat 657
 Liver protein utilization, method for estimating nutritive value, proteins 491
 Live-weight gain, nutrient utilization, quantitative aspects, sheep 603
- Lucerne hay, protein utilization, sheep 455
 Lysine, acylated units, heat damage mechanism, proteins 859
 Lysine, effect on calcium balance, pre-school children 907
 Lysine supplements, ragi diets, Indian child 737
 Lysosomes, kidney, fatty acid metabolism and vitamin E intake, rat 31
 Lysosomes, liver, protein deficiency, rat 755
- Magnesium and potassium intake, effect on hypomagnesaemia development, sheep 81
 Maize oil, dietary, effect on plasma phospholipids, rabbit 612
 Maize oil, intra-abomasal infusion, sheep 141
 Maize oil, intraruminal infusion, linoleic acid incorporation into plasma lipids, sheep 709
 Malondialdehyde, liver microsomes, effect of hepatotoxic agents and vitamin E, rat 299, 310
 Malnutrition, effect on femur composition, child 917
 Malnutrition, growth rate during recovery, child 835
 Malnutrition, metabolic rate and body temperature, pig 265
 Malnutrition, post-mortem chemical composition of organs, child 783
 Malnutrition, relationships between serum amino acid ratio and liver composition, rat 879
 Malnutrition, relationship between serum amino acid ratio and other abnormalities, pig 791
 Mammary arteriovenous differences, catheterization technique, sow 320
 Mammary gland metabolism, comparison between sow and goat 331
 Mammary gland metabolism, sow 319
 Man 227, 237, 401, 889
 Markers, evaluation of chromic oxide, intestinal digestion, sheep 16
 Markers, polyethylene glycol, distribution, food particle suspensions 559
 Meat dishes, composition, Tristan da Cunha 233
 Metabolic rate, effect of fasting, newborn pig 410
 Metabolic rate, protein-calorie deficiency, pig 265
 Methanogenesis, effect of oxygen, rumen fermentation of sucrose, *in vitro* 69
 Methanogenesis, *in vitro* rumen fermentation 57
 Methanogenesis, *in vitro* rumen fermentation, soluble carbohydrates 925
 Methanogenesis, rumen, soluble carbohydrate diets, sheep 813
 Methanol, effect on liver lipid metabolism, rat 310
 Methylmalonic acid excretion, effect of vitamin B₁₂ deficiency, rat 343
 Micro-organisms, *in vitro* rumen fermentation of sucrose, effect of oxygen 67
 Micro-organisms, rumen, linoleic acid metabolism, effect of esterification, sheep 869
 Milk composition, effect of volatile fatty acid infusion, rumen, cow 443
 Milk composition, rat 687

- Milk, dietary, compositional changes during gastric digestion, infant rat 683
- Milk fat secretion, effect of change from low- to high-roughage diets, cow 511
- Milk fat secretion, effect of intravenous cod-liver and soya-bean oil infusions cow 173
- Milk fat secretion, effect of intravenous triglyceride infusion, cow 157
- Milk fatty acid(s), yield, effect of intravenous cod-liver and soya-bean oil infusion, cow 175
- Milk, nutritive value, effect of heat treatment, calf 763
- Milk precursors, arteriovenous differences, sow 319
- Milk substitute, heat treatment, effect on proteins 765
- Milk yield, effect of cod-liver oil, intravenous infusion, cow 175
- Milk yield, effect of volatile fatty acid infusion, rumen, cow 443
- Minerals *see also* Calcium, Chromic oxide, Copper, Iron, Magnesium, Phosphorus, Potassium, Selenium, Zinc
- Moist heating, effect on nutritive value, leaf protein 541
- Mouse 637
- Neonates, fat and carbohydrate content, various species 407
- Nitrogen digestion, effect of level of feeding, sheep 595
- Nitrogen metabolism, lysine and leaf-protein supplements, ragi diets, Indian child 737
- Nitrogen metabolism, protein deficiency, rat 749
- Nitrogen retention, effect of energy intake, sheep 730
- Nucleic acid concentration, effect of protein level and bone injury, skeletal muscle, rat 277
- Nucleic acid(s), determination in ruminant digesta 671
- Nucleic acid metabolism, effect of riboflavine deficiency, liver, rat 657
- Nutrients utilized for live-weight gain, sheep 603
- Nutrition, effect on growth and androgenic activity, male calf 194
- Nutrition survey, Tristan da Cunha 227, 237
- Nutritional status, biochemical tests, field evaluation, Ugandan child 1
- Nutritional status, children, Buganda, Karamoja and Bukedi districts, Uganda 2
- Nutritional status, malnourished pig, relationship to kwashiorkor 803
- Nutritive value, *in vitro* and *in vivo* methods, leaf protein 533
- Nutritive value, milk, effect of heat treatment, calf 763
- Nutritive value, proteins, high-yielding pearl millets 913
- Nutritive value, protein, new method of estimation 491
- Oesophageal groove reflex, potential for bypassing rumen fermentation, sheep 415
- Oil *see also* Cod-liver oil, Linseed oil, Maize oil, Soya-bean oil
- Orotic acid poisoning, effect on liver lipid metabolism, rat 312
- Ova, respiratory metabolism, effect of protein-calorie deficiency, rat 181
- Oxygen consumption, newborn pig 408
- Oxygen consumption, ova, rat 186
- Oxygen, effect on rumen fermentation of sucrose, *in vitro* 67
- Papain solubility, leaf protein 538
- Parathyroids, leucine aminopeptidase activity, vitamin D deficiency, rat 372
- Pearl millet, high-yielding varieties, nutritive value, protein 913
- Peritoneum, wound healing, protein deficiency, histological appearance, rat 500
- pH, rumen, buffering system, sheep 806
- Phospholipids, effect of vitamin E deficiency, rat 289
- Phospholipids, plasma, effect of dietary linoleic acid, rabbit 611
- Phosphorus, buffering system, rumen, sheep 807
- Phosphorus-calcium, dietary, effect on vitamin D metabolism, rat 523
- Phosphorus-calcium content, serum, bone ash, vitamin D deficiency, rat 372
- Phosphorus, nucleic acid incorporation, riboflavine deficiency, rat 658
- Pig 249, 265, 281, 319, 407, 791, 847
- Plasma albumin levels, children, Uganda 8
- Plasma amino acid concentration, effect of energy nutrition, cow 547
- Plasma amino acid ratio, interpretation in protein-calorie deficiency, dog 203
- Plasma composition, milk fat precursors, cow 515
- Plasma lipid composition, effect of intravenous cod-liver and soya-bean oil infusion, cow 176
- Plasma lipid composition, effect of triglyceride infusion, cow 162
- Plasma lipid(s), effect of dietary fats, rabbit 125
- Plasma lipid(s), effect of intra-abomasal lipid infusion, sheep 141
- Plasma lipid(s), incorporation of linoleic acid, intraruminal infusions, sheep 709
- Plasma phospholipid(s), dietary linoleic acid, rabbit 611
- Plasma protein concentration, effect of dietary fat content, dog 207
- Plasma protein concentration, index of protein-calorie deficiency, dog 208
- Plasma protein, effect of protein deficiency, rat 499
- Poison(s), hepatotoxic agents, effect on lipid metabolism, vitamin E deficiency, rat 297, 309
- Polyethylene glycol, distribution, food particle suspensions 559
- Potassium and magnesium intake, effect on hypomagnesaemia development, sheep 81
- Propionate, effect on methylmalonic acid excretion, rat 348

- Propionic acid, intraruminal infusion, effect on plasma amino acid concentrations, cow 551
- Proteins *see also* Leaf protein, Lucerne, Soya bean
- Protein-calorie deficiency, effect on reproduction, rat 181
- Protein-calorie deficiency, interpretation of plasma amino acid ratios 203
- Protein-calorie deficiency, metabolic rate, body temperature, pig 265
- Protein-calorie malnutrition, effect on femur composition, child, 917
- Protein-calorie malnutrition, growth rates during recovery, child 835
- Protein-calorie malnutrition, serum amino acid ratio, pig 796
- Protein deficiency, effect on peritoneal wound healing, rat 497
- Protein deficiency, liver lysosomes, rat 755
- Protein deficiency, spaced-feeding, rat 745
- Protein degradation, rumen, avoidance, use of oesophageal groove reflex, sheep 420
- Protein, dietary, biological evaluation, weanling and mature rat 113
- Protein, dietary, effect on aromatic acid excretion, sheep 396
- Protein, dietary, nutritive value, new method of estimation 491
- Protein intake, effect on leucine uptake, skeletal muscle ribosomes, rat 271
- Protein intake, effect on serum protein concentration, high-carbohydrate diets, man 401
- Protein, leaf, nutritive value, in vivo and in vitro methods 533
- Protein(s), lucerne hay, soya-bean meal, efficiency of utilization, sheep 455
- Protein(s), mechanism of heat damage 859
- Protein metabolism, mammary gland, sow 328
- Protein, nutritive value, high-yielding pearl millets 913
- Protein utilization, effect of dietary starch, sheep 727
- Pyloric chyme, heat-treated milk substitute diets, calf 769
- Rabbit 125, 611
- Radiographic study, stomach function, scour syndrome, piglet 852
- Rapeseed meal, biological evaluation, weanling and mature rat 113
- Rat 25, 31, 41, 47, 91, 113, 135, 153, 181, 271, 289, 297, 309, 343, 353, 371, 429, 497, 505, 523, 619, 627, 657, 665, 683, 705, 745, 755, 859, 879
- Rate of passage, food, germ-free rat 438
- Reproduction, effect of copper deficiency, female rat 41
- Reproduction, effect of protein-calorie deficiency, ova, rat 181
- Reproduction, effect of retinoic acid, fowl 476
- Respiration, ova, effect of protein-calorie deficiency, rat 181
- Respiration trials, lactation, cow 446
- Respiratory quotient, newborn pig 407
- Retinoic acid, biological activity, fowl 471
- Retinoic acid metabolism, chick embryo 899
- Retinol metabolism, chick embryo 899
- Retinol, requirements, spermatogenesis, vision, rat 619
- Riboflavin deficiency, effect on nucleic acid metabolism, liver, rat 657
- Riboflavin metabolism, urinary excretion, man 889
- Ribosomes, skeletal muscle, uptake of leucine after injury, rat 271
- RNA concentration, effect of protein level and bone injury, skeletal muscle, rat 277
- Roughage, dietary, effect on aromatic acid excretion, sheep 396
- Roughage diets, effects of change from low to high, lactating cow 511
- Rumen, ammonia production and absorption, sheep 647
- Rumen, artificial, description of apparatus 52
- Rumen buffering system, pelleted roughage-concentrate diets, sheep 805
- Rumen contents, composition, effect of change from low- to high-roughage diet, cow 514
- Rumen contents, composition, sheep 462
- Rumen development, effect on adipose tissue triglycerides, calf 421
- Rumen liquor, composition, effect of maize supplementation, sheep 733
- Rumen fermentation, avoidance, use of oesophageal groove reflex, sheep 415
- Rumen fermentation, effect of change from low- to high-roughage diets, lactating cow 511
- Rumen fermentation, in vitro, soluble carbohydrates, methanogenesis 925
- Rumen fermentation, soluble carbohydrates, flaked maize diet, cow 567
- Rumen fermentation, starch, effect of dietary factors, early weaned lamb 217
- Rumen fermentation, sucrose, effect of oxygen, in vitro 67
- Saccharin, effect on growth, poor rice diet, rat 505
- Sea-birds, various species, composition, raw and cooked 232
- Selenium, liver lipid metabolism, vitamin E deficiency, rat 312
- Seminal plasma composition, effect of nutrition and androgens at puberty, male calf 191
- Serum amino acid ratio, malnourished pig 791
- Serum amino acid ratio, relationship to liver composition, malnourished rat 879
- Serum calcium and phosphorus, vitamin D metabolism, rat 529
- Serum protein concentration, effect of protein intake, high-carbohydrate diets, man 401
- Sex, relationship between body fat and body measurements, rat 360
- Sheep 15, 81, 97, 141, 217, 249, 377, 389, 415, 455, 585, 603, 647, 709, 715, 727, 805, 813, 827, 869
- Soya-bean meal, biological evaluation, weanling and mature rat 113

- Soya-bean meal, protein utilization, sheep 455
 Soya-bean oil, intravenous infusion, effect on milk fat secretion, cow 173
 Spermatogenesis, retinol requirements, rat 619
 Starch, dietary, effect on protein utilization, sheep 727
 Starch digestion, effect of level of feeding, sheep 594
 Starch, sites of digestion, early weaned lamb 217
 Starvation, effect on aromatic acid excretion, sheep 715
 Starvation, effect on methylmalonic acid excretion, rat 347
 Stomach function, scour syndrome, piglet 847
 Strain, relationship between body fat and body measurements, rat 360
 Suckling, effect on oesophageal groove reflex, sheep 418
 Sucrose, rumen fermentation, effect of oxygen, in vitro 67
 Sucrose, fermentation, effect of linseed oil fatty acids, artificial rumen 51
 Sugars *see also* Galactose, Glucose, Sucrose, Sugar-beet pulp
 Sugar-beet pulp, fermentation, effect of linseed oil fatty acids, artificial rumen 51
 Sugar-beet pulp, particulate suspension, effect on polyethylene glycol distribution 559
 Sugar, dietary, effect of age on blood sugar composition 335
 Sugar(s), duodenal infusion effect on blood sugar composition, calf 337
 Sugar(s), in vitro rumen fermentation, methanogenesis 925
 Sugar(s), rumen fermentation, flaked maize diets, cow 567
 Sugar substitutes *see* Cyclamate, Saccharin
- Teeth, dietary calcium and phosphorus, vitamin D metabolism, rat 525
 Temperature, body, effect of fasting, newborn pig 410
 Temperature, body, protein-calorie deficiency, pig 265
 Testosterone, effect on blood plasma composition, male calf 195
 Thioacetamide poisoning, effect on liver lipid metabolism, rat 313
 D- α -Tocopherol metabolism, effect of carbon tetrachloride, rat 303
 Toxicity, effect of retinoic acid, embryo, chick 482
 Triglyceride(s), adipose tissue, effect of diet and rumen development, calf 421
 Triglyceride(s), fatty acid distribution, adipose tissue, pig 285
 Triglyceride infusions, method of preparation 158
 Triglyceride(s), intravenous infusion, effect on milk fat secretion, cow 157
 Tryptophan, excretion, vitamin B₆ metabolism, rat 706
 Tryptophan metabolites, urinary excretion, effect of acetoacetate, rat 153
- Urea, blood, effect of dietary maize supplement, sheep 733
- Valine, effect on methylmalonic acid excretion, rat 348
 Vegetables, various species, composition, raw and cooked 233
 Vision, effect of retinoic acid, fowl 476
 Vision, retinol requirements, rat 619
 Vitamins, *see also* Arboascorbic acid, Retinoic acid, Retinol, Riboflavine, Tocopherol
 Vitamin A deficiency, effect on embryo, chick 471
 Vitamin A, liver, effect of carbon tetrachloride, rat 304
 Vitamin A metabolism, chick embryo 899
 Vitamin A, relationship to cholesterol metabolism, rat 25
 Vitamin B₆ metabolism, effect of acetoacetate, rat 705
 Vitamin B₁₂ deficiency, effect on methylmalonic acid excretion, rat 343
 Vitamin C *see* Arboascorbic acid
 Vitamin D esters, metabolism, rat 135
 Vitamin D metabolism, effect of dietary calcium and phosphorus, rat 523
 Vitamin D metabolism, rat 371
 Vitamin E *see also* Tocopherol
 Vitamin E deficiency, effect on tissue lipids, rat 289
 Vitamin E intake, fatty acid metabolism in kidney lysosomes, rat 31
 Vitamin E, lipid metabolism, effect of hepatotoxic agents, rat 297, 309
 Volatile fatty acids *see* Fatty acid(s), volatile
- Water, intestinal absorption, effect of antibiotics, mouse 643
 Whey drainage, milk substitute, effect of heat treatment 767
 Wound contraction, peritoneum, effect of protein deficiency, rat 502
- Xanthurenic acid, urinary excretion, effect of acetoacetate, rat 153
- Zinc metabolism, iron deficiency, rat 91