

Index of Subjects

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

- Absorption, glucose, small intestine, lamb, sheep, rat 57
 Absorption of nitrogen, rumen, sheep 361
 Absorption site, encapsulated methionine, intestine, cattle 335
 Adipose tissue composition, various sites, man 377
 Adrenal glands, effect of dietary salt supplement, steer 201
 Age, effect on tissue deposition of L-xyloascorbic acid, guinea-pig 77
 Amino acid(s) *see also* Methionine
 Amino acid composition, intestinal digesta, effect of level of grain intake, cattle 347
 Amino acid concentrations, serum, effect of orally administered glucose, kwashiorkor, Ugandan child 253
 Ammonia, digesta, concentration along alimentary tract, calf 181
 Ammonia, production in caecal fluid and faeces, sheep 88
 Ammonia, rate of production, rumen, sheep 358
 Ammonia, utilization by ruminal micro-organisms sheep 354
 Analytical technique, diaminopimelic acid, duodenal digesta 169
 Analytical technique, unesterified fatty acids, duodenal digesta 309
 Artificial rearing, pig 113
 Ascorbic acid, growth stimulant, copper-supplemented diets, pig 381
 Ascorbic acid depletion, effect on bone metabolism, guinea-pig, Bantu male 367
- Baboon 323
 Bacteria, rumen, nitrogen metabolism, sheep 351
 Bacteria, ruminal, nitrogen content, duodenal fluid, ruminant 171
 Barley diet, effect of urea or fish-meal supplement, sheep 243
 Barley and soya-bean diets, effect of proportions on site of digestion, sheep 225
 Bile, effect on encapsulated methionine, cattle 333
 Bile, effect on solubilization of unesterified fatty acids, duodenal digesta, sheep 307
 Bird(s) *see also* Chick
 Bird(s) 127, 135
 Blood *see* Plasma
 Body composition, effects of temperature and plane of nutrition, pig 259
 Bone composition, nestling blackbird and thrush 132
 Bone marrow, ferritin concentration, copper-deficient rat 25
 Bone metabolism, effect of siderosis and ascorbic acid depletion, guinea-pig, Bantu male 367
- Brain size, effects of marasmus, child 107
 Breeding, effect of dietary newly growing heather, captive red grouse 135
 Bromine content, various tissues, man 317
 Bromine salts, growth stimulants, copper-supplemented diets, pig 381
- Calcium, gut contents, nestling blackbird and thrush, 133
 Calcium content, rat's milk 296
 Calf *see also* Cattle
 Calf 181
 Calorie deficiency, early, effect on learning ability, rat 391
 Carbohydrate *see also* Energy, Starch, Sugar
 Carbohydrate, dietary source, effect on serum lipid concentration, rat 217
 Carbohydrate(s), fed with proteins, effect on course of protein digestion, rat 299
 Cattle *see also* Calf
 Cattle 165, 191, 333, 343
 Cerebro-spinal fluid, composition, marasmic child 109
 Chick *see also* Bird(s)
 Chick 235
 Child *see also* Man
 Child 97, 107, 145, 253, 273, 317, 377
 Composition, body, changes during growth, nestling blackbird and thrush 127
 Copper deficiency, effect on iron metabolism, rat 15
 Copper-supplemented diets, effect of various growth stimulants, pig 381
 Cranial transillumination, determination of brain size in severe malnutrition, child 107
 Creatine kinase activity, serum, kwashiorkor recovery phase, child 273
 Creatinine excretion, kwashiorkor recovery phase, child 273
 Cyanocobalamin, dietary supplement, effect on vitamin B₁₂ content of milk, rat 296
- Diaminopimelic acid, analytical technique, duodenal fluid, ruminant 169
 Diaminopimelic acid, bacterial nitrogen marker, duodenum, ruminant 165
 Digestion along alimentary tract, various concentrate diets, sheep 225, 243
 Digestion, lignin degradation, ruminant 3
 Digestion of protein, course of, effect of feeding carbohydrate with proteins, rat 299
 Digestion, protein, intestines, effect of level of grain intake, cattle 343
 Diuretic drug, effect on food intake, sheep 156
 Duodenum, bacterial nitrogen in digesta, ruminant 171

- Duodenum, digesta, effect of level of grain intake, cattle 345
- Duodenum, digesta composition, nitrogen and nucleic acid, calf 183
- Duodenum, digesta flow measurement, apparatus, sheep 8
- Egg laying, effect of dietary newly growing heather, captive red grouse 138
- Electrolytes, ruminal infusion, effect on food intake, sheep 157
- Energy utilization, theoretical effects of prevention of rumen fermentation, lamb 31
- Enzyme(s) *see also* Creatine kinase, Trypsin, Urease
- Enzyme activity, cellulolytic, ruminal and caecal contents, sheep 93
- Enzyme activity, large intestine, assay procedures, sheep 86
- Enzyme activity, proteolytic, ruminal, caecal and faecal liquor, sheep 90
- Enzyme activity, proteolytic, stomach wall and pancreas, effect of heat-treated whole-milk powder, baby pig 120
- Erythrocyte membrane, effect of kwashiorkor, Ugandan child 145
- Fat, dietary, effect on rumen fermentation, lamb 51
- Fatty acid composition, adipose tissue, various sites, man 377
- Fatty acids, unesterified, duodenal digesta, analytical technique 309
- Fatty acids, unesterified, effect of bile on solubilization, duodenal digesta, sheep 307
- Fatty acids, volatile, heat increment of metabolism, lamb 38
- Fatty acids, volatile, rate of production, barley diet, sheep 243
- Feed *see also* Food
- Feed additives, copper-supplemented diets, pig 381
- Feed supplement, encapsulated methionine, cattle 333
- Ferritin, extraction and estimation, bone-marrow, rat 16
- Fish meal, dietary supplement, effect on digestion of barley, various sites, sheep 243
- Flow, intestinal digesta, effect of level of grain intake, cattle 345
- Flow measurement, intestinal digesta, apparatus, sheep 8
- Food *see also* Feed
- Food additives, brominated vegetable oil, tissue bromine content, man 317
- Food intake, effect of dietary salt supplement, steer 195
- Food intake, effect of proportions of soya-bean and barley in diet, sheep 227
- Food intake at a single meal, sheep 153
- Glucose absorption, small intestine, lamb, sheep, rat 57
- Glucose, oral dose, effect on serum free amino acid concentrations, kwashiorkor, Ugandan child 253
- Goitre, endemic, iodine metabolism, woman, child, Ceylon 97
- Grain intake, effect on protein digestion, intestines, cattle 343
- Growth, chemical composition, nestling blackbird and thrush 127
- Growth, effect of protein-calorie deficiency, rat 175
- Growth, effects of temperature and plane of nutrition, pig 259
- Growth, ruminal micro-organisms, sheep 357
- Growth stimulants, copper-supplemented diets, pig 381
- Guinea-pig 77, 367
- Haemolysis, erythrocyte, effect of kwashiorkor, Ugandan child 148
- Hatchability, eggs, effect of dietary newly growing heather, captive red grouse 139
- Heat increment from end-products of digestion, lamb 37
- Heat treatment, effect on nutritive value of whole-milk powder, baby pig 113
- Heather, newly growing, dietary, effect on breeding, captive red grouse 135
- Hexose, dietary intake, effect on absorptive capacity for glucose, small intestine, lambs, sheep 67
- Hormones, sexual, effect on serum triglycerides, high-sucrose diets, baboon 323
- Ileum, digesta composition, nitrogen and nucleic acid, calf 187
- Intelligence testing, modified Hebb-Williams apparatus, rat 394
- Intestinal loop, surgical procedure, lamb, sheep, rat 59
- Intestine, large, nitrogen metabolism, sheep 85
- Intestine, protein digestion, effect of level of grain intake, cattle 343
- Intestine, release of encapsulated methionine, cattle 333
- Intestine, small, glucose absorption, lamb, sheep, rat 57
- Intestine, small, relationship of length and weight to body-weight, lamb, sheep 61
- Iodine metabolism, endemic goitre, woman, child, Ceylon 97
- Iron concentration, liver storage, relationship to bone metabolism, Bantu male 368
- Iron metabolism, copper-deficient rat 15
- Iron overload, effect on tissue ascorbic acid and bone metabolism, guinea-pig 369
- Kwashiorkor, effect on erythrocyte membrane, Ugandan child 145
- Kwashiorkor, recovery phase, metabolic changes, child 273
- Kwashiorkor, serum free amino acid concentrations, effect of orally administered glucose, Ugandan child 253

- Lamb *see also* Sheep
 Lamb 31, 57
 Learning ability, effects of early calorie and protein deficiencies, rat 391
 Lecithin, effect on solubilization of unesterified fatty acids, duodenal digesta, sheep 311
 Lecithin, erythrocyte membrane, effect of kwashiorkor, Ugandan child 148
 Lignin, degradation and ruminant digestion 3
 Lignin determination, pre-treatment technique 4
 Lipid concentration, serum, effect of dietary changes, rat 213
 Lipid(s), dietary source, effect on serum lipid concentration, rat 221
 Lipid digestion, various sites, sheep 232, 243
 Lipid-bound bromine content, various tissues, man 317
 Liver, storage, iron concentration, relationship to bone metabolism, Bantu male 368
- Malnutrition, effect on brain size, child 107
 Malnutrition, early, effect on learning ability, rat 391
 Man *see also* Child, Woman
 Man 317, 367, 377
 Marker(s), bacterial nitrogen, duodenum, use of diaminopimelic acid, ruminant 165
 Marker, lignin, degradation in digestive tract, sheep 91
 Membrane, erythrocyte, effect of kwashiorkor, Ugandan child 145
 Methane, energy losses, rumen fermentation, lamb 34
 Methionine, encapsulated, release in intestine, cattle 333
 Milk, effect of heat treatment on clotting in stomach, baby pig 116
 Milk, vitamin B₁₂ content, rat 295
 Milk powder, effect of heat treatment on nutritive value, baby pig 113
 Mineral(s) *see also* Bromine, Calcium, Copper, Iodine, Iron, Sodium, Potassium
 Mineral composition, changes during growth, nestling blackbird and thrush 130
 Morbidity, effect of heat treatment of spray-dried whole-milk powder, baby pig 124
 Muscle, size determined by X-rays, child 275
- Nitrogen, bacterial, duodenum, diaminopimelic acid as a marker, ruminant 165
 Nitrogen, digesta, concentration along alimentary tract, calf 181
 Nitrogen, estimation of loss as skin and hair, pig 263
 Nitrogen, gaseous fraction, rumen, sheep 365
 Nitrogen incorporation efficiency, measure of protein quality, various lines of peas 209
 Nitrogen metabolism, effect of temperature and plane of nutrition, pig 259
 Nitrogen metabolism, large intestine, sheep 85
 Nitrogen metabolism, sheep 351
 Nucleic acid, metabolism, concentration along alimentary tract, calf 181
 Nutrition *see* Plane of nutrition
- Nutritive value, effect of trypsin inhibitor, soya bean, chick, rat 235
 Nutritive value, hydrocarbon-grown yeast, growing pig 285
 Nutritive value, spray-dried whole-milk powder, effect of heat treatment, baby pig 113
- Obituary Notice, Benjamin Stanley Platt 1
 Oesophageal groove *see* Reticular groove
 Oil(s), brominated, dietary, relationship to tissue bromine content, man 317
 Osmolality, rumen fluid, effect on food intake, sheep 157
 Osteoporosis, relationship of siderosis and ascorbic acid depletion, Bantu male 367
- Pancreatin, effect on encapsulated methionine, cattle 333
 Parotid glands, effect of dietary salt supplement, steer 201
 Pea, protein quality of various lines 207
 pH, effect on proteolytic activity, ruminal and caecal liquor, sheep 91
 Phospholipids, erythrocyte membrane, effect of kwashiorkor, Ugandan child 146
 Pig 113, 259, 381
 Plane of nutrition and environmental temperature, effects on growth and metabolism, pig 259
 Plasma amino acid concentrations, effects of feeding carbohydrate with protein, rat 304
 Plasma composition, effect of dietary salt supplement, steer 199
 Plasma, copper and iron metabolism, rat 18
 Platt, Benjamin Stanley, Obituary Notice 1
 Potassium metabolism, effect of dietary salt supplement, steer 197
 Protein-calorie deficiency, effect on growth and reproduction, rat 175
 Protein deficiency, early, effect on learning ability, rat 391
 Protein, dietary source, effect on serum lipid concentration, rat 218
 Protein digestion, various sites, sheep 228, 243
 Protein(s), fed with carbohydrate, effect on course of digestion, rat 299
 Protein quality, various lines of peas 207
 Protozoa, rumen, nitrogen metabolism, sheep 351
- Rat 15, 57, 175, 207, 213, 235, 295, 299, 391
 Reproduction, effect of dietary newly growing heather, captive red grouse 135
 Reproduction, effect of protein-calorie deficiency, rat 175
 Reticular groove, closure stimulation, lamb 52
 Rumen, bypass, encapsulated methionine, cattle 333
 Rumen fermentation, prevention, effect on dietary energy and protein utilization, theoretical considerations, lamb 31
 Rumen fluid, sodium and potassium concentration, effect of dietary salt supplement, steer 147

- Salicylate, sodium, copper-supplemented diets, pig 381
- Saline, peritoneal infusion, effect on food intake, sheep 156
- Saliva composition, effect of dietary salt supplement, steer 197
- Serum lipid concentration, effect of dietary changes, rat 213
- Sex differences, hormonal effects on serum triglycerides, high-sucrose diets, baboon 323
- Sex, effect on tissue deposition of L-xyloascorbic acid, guinea-pig 77
- Sheep *see also* Lamb
- Sheep 5, 57, 85, 153, 165, 225, 243, 307, 351
- Siderosis, effect on bone metabolism, Bantu male 367
- Sodium content, rat's milk 296
- Sodium requirement, all-sorghum grain diet, steer 191
- Sodium salicylate, growth stimulant, copper-supplemented diets, pig 381
- Soya-bean and barley, proportions in diet, effect on site of digestion, sheep 225
- Soya bean, relationship between trypsin inhibitor and nutritive value, chick, rat 235
- Starch digestion, various sites, sheep 230, 243
- Sucrose, fed with proteins, effect on course of digestion of protein, rat 300
- Sucrose diets, effect of sex hormones on serum triglycerides, baboon 323
- Sugar(s) *see* Glucose, Hexose, Sucrose
- Taurocholate, effect on solubilization of unesterified fatty acids, duodenal digesta, sheep 311
- Temperature, environmental, effects on growth and metabolism, pig 259
- Triglycerides, serum, effect of sex hormones, high-sucrose diets, baboon 323
- Trypsin inhibitor, relationship to nutritive value, soya bean 235
- Urea, dietary supplement, effect on digestion of barley, various diets, sheep 243
- Urease activity, ruminal, caecal and faecal contents, sheep 92
- Urine, energy losses, lamb 35
- Vitamin(s) *see* Ascorbic acid, Vitamin B₁₂, L-Xyloascorbic acid
- Vitamin C *see* Ascorbic acid, L-Xyloascorbic acid
- Volatile fatty acids *see* Fatty acid(s), volatile
- Water intake, effect of dietary salt supplement, steer 197
- Water intake, effect of ruminal electrolyte infusion, sheep 158
- Water, ruminal infusion, effect on food intake, sheep 161
- Woman *see also* Man
- Woman 97
- X-rays, use in determining muscle size, child 275
- L-Xyloascorbic acid, tissue deposition, effect of sex and age, guinea-pig 77
- Yeast, hydrocarbon-grown, nutritive value for growing pig 285