stomach to receive and digest the food, by means of the gastric fluid exuded from its coats, supposed to be nothing more than hydrocloric acid. (We may here mention, that it is our intention, having received a pressing invitation to do so from a high quarter, to give a course of public Lectures, explaining the secrets of our personal practice in the production of animal substances without the agency of vitality, to which our attention was long and perseveringly directeduntil lately held to be an utter impossibility.) However, we may mention, that though an acid makes its appearance on the introduction of food into the stomach, it is the stomach of the stomach of the stomach of the solution. it is still a point of contention whether this acid takes any part in the solution, or digestion of the food. But in this popular work, intended for all, I shall not enter on scientific details, which would be rather repellent than attractive to the majority. The duodenum is the commencement of the small intestines, and receives the food from the stomach in the form of chyle through the pyloric duct. In its passage through the duodenum, the food receives the pancreatic juice from the duct connected with the pancreas or sweetbread. Here these fluids become changed into chyle—the pancreatic juice converting one portion into become changed into chyle—the pancreatic juice converting one portion into a white, thick, milky fluid, and the bile into a yellow pultaceous mass. The next intestine, the *jejunum*, conveys the food thus reduced inward,—acts the next intestine, the jejunum, conveys the root and its account is called the empty out its retains it a short time only, and on this account is called the empty gut the retains it a substitute only, and on this account the next called the Ren. There is little difference between this intestine and the next called the Neum. Both these intestines are much convoluted, for the purpose of detaining the the food in its progress a sufficient time to permit the absorbents connected with the mysentery, to extract the nutritious portions from the unnutritions, and carry it into the circulating system, for distribution over every portion of the animal ^{system}. The ileum terminates in the blind gut or cacum, passing through a which prevents the return of the contents. The cocum and colon, large intestines, serve as a store-house for all the food which is of no use to the systen, generally known as dung or faces but a portion of the absorbents extend their vessels, into these even, that as much nourishment as possible may b_{θ} extracted from the food before it leaves the body. The rectum or straight Sut forms the terminus of the abdominal viscera to receive the faces before ex-Pulsion by anus. The duodenam and rectum are both straight, because it is not necessary that their contents should remain long in them.

As we wish our Readers to understand thoroughly the feeding of the domestic animals, and the modus operandi,—the proper method—and the reasons for it, begin from the beginning.

The compound stomaches of cattle and sheep—the entire system of the ruminants is divided into four compartments—the first being the termination of the esophagus, and is termed the rumen, ventriculus, or paunch. This large and toomy occupies nearly three-fourths of the abdominal cavity and is divided into four unequal sacks by the duplicature, folding, or doubbling of the coats of the Rumen. The food when first swallowed goes into the Rumen for rumination or maceration—it still remaining without alteration with a Rread great portion of the fluids swallowed. This is accomplished by lubrication with mucous and trituration by the papille on its interior surface. The food next passes into the second stomach, or Reticulum, which is provided with a honey comb comb surface, which acts by rolling the food into pellets, to prepare it to be returned through the gullet to the mouth for remastication. Having a special office to the pellet to the mouth for remastication. Having a special office to perform, it is comparatively small and ovoidal, or oval shaped. esophogus of Ruminants we would particularly remark, does not terminate in the same of four. its interior the first stomach it reaches, but extends through the series of four, its interior lining forming their roofs—so that, at the will of the animal, the food swallowed may enter the third or fourth stomach, without a particle of it entering the first