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Proton Structure (Paperback)

By William L Stubbs

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Proton Structure reexamines the original deep inelastic scattering data generated by the Stanford Linear Accelerator Center (SLAC) in the late 1960s and early 1970s. It shows that the proton and the deuteron structure functions appear to peak at a proton momentum fraction of $1/9$. This indicates that the proton (and the neutron) is made of nine particles. Based on their masses and charges, it proposes that those particles are four muons and five antimuons. Proton Structure then examines the proton structure function further using data generated by the Hadron Electron Ring Accelerator (HERA) in 1993. The HERA electron scatterings occurred at energies significantly higher than the ones in the SLAC experiments. This provided a much higher resolution of the inside of the proton. Proton Structure analyzes the HERA data for momentum fraction less than the SLAC peak value of $1/9$. It shows that the HERA data actually produces a structure function curve for the muons inside the proton. The structure function curve for the muon peaks at a muon momentum fraction of $1/203$. This indicates that the muon is...



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