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Updating the 1966 Mass Formula How Particles Behave Like Tiny Magnets; Chapter 4. How Scientists Study Nature-Pure and Applied Research; What is Scientific Research?; From Relativistic Quantum Theory to the Human Brain; Appendix; The Impact of Dirac's Positrons on My Own Career; Creative Questioning; Chapter 5. The Building Blocks of Matter-What is a Quark?; The Structure of Matter; How Accelerators are Used as Microscopes; Gaps in the Mendeleev Periodic Table; Why Particles Seem to be Made out of Quarks; Gaps in the Next Mendeleev Table; Excitement About New Particles
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Sommario/riassunto

In 1980, the Cold War was in full bloom. The Soviet father of the hydrogen bomb and Nobel Peace Laureate turned dissident physicist, Andrei Sakharov, had been exiled to Gorki by the Soviet authorities. Called "senile" and under heavy Soviet censorship, Sakharov had a hard time communicating his latest scientific results to readers outside of Gorki. Some smuggled results reached the author, Harry Lipkin, who then realized that he and Sakharov were both pioneers in a new revolution on our understanding the structure of matter. The particle physics community had resisted their revelation that the
