



# Physics and Our World:Reissue of the Proceedings of a Symposium in Honor of Victor F Weisskopf

*HUANG KERSON*

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As the proceedings of a symposium in honor of Victor Weisskopf at MIT, this volume contains papers by leaders of physics at the time, including M Delbrück, M Gell-Mann, H Bethe, T D Lee, B R Mottelson, W K H Panofsky, E Purcell, J Schwinger, S M Ulam, and others. Some papers address problems in the philosophy of physics, and physics and society, that are timeless in nature. But the symposium had a historical significance, in that it took place at a historic juncture of particle physics — the emergence of the Standard Model owing to experiments that point to the existence of quarks. Some of the papers reflect both the pre-quark and post-quark points of view. For these reasons, these proceedings merit reissue and reexamination.

### Contents:

- Introductory Remarks (*James Killian*)
- The Energy Problem (*Hans Bethe*)
- Model-Free Views of Deep Inelastic Scattering (*Julian Schwinger*)
- Life at Low Reynolds Number (*E M Purcell*)
- A Possible New Form of Matter at High Density (*T D Lee*)
- The World as Quarks, Leptons and Bosons (*Murray Gell-Mann*)
- What Angular Momentum Can Do to the Nucleus (*Ben R Mottelson*)
- Physics for Mathematicians (*S M Ulam*)
- How Aristotle Discovered DNA (*Max Delbrück*)
- Is Negotiated Arms Control Possible? (*W K H Panofsky*)
- The Third Culture (*David Hawkins*)

**Readership:** Academics, graduate students and people interested in particle and nuclear physics.



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