

# $U(1)$ Gauge Theories in Condensed Matter Physics

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This article is a reading note of Wen's famous textbook [1]. It is mainly a reconstruction of material related to  $U(1)$  gauge theories covered in Chapter 6.

## References

- [1] Xiao-Gang Wen. *Quantum Field Theory of Many-Body Systems*. Oxford University Press, September 2007.