

1. Record Nr.	UNISA996385950103316
Autore	Whitby Daniel <1638-1726.>
Titolo	A paraphrase and commentary upon all the epistles of the New Testament [[electronic resource]] : By Daniel Whitby, D.D. and chantor of the church of Sarum
Pubbl/distr/stampa	London, : printed by W. Bowyer, for Awnsham and John Churchill, at the Black Swan in Pater-Noster-Row, M.DCC. [1700]
Descrizione fisica	[8], li, [1], 14, 17-209, 212-412, 401-698, [18] p
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A treatise of the true millenium" has divisional title page; register and pagination are continuous. With a table and two final index leaves. Text and register appear continuous despite pagination. Imperfect: tightly bound with some print show-through. Reproduction of the original in the British Library.
Sommario/riassunto	eebo-0018

2. Record Nr.	UNINA9910373931703321
Autore	Shastry Abhay
Titolo	Theory of Thermodynamic Measurements of Quantum Systems Far from Equilibrium / / by Abhay Shastry
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-33574-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (152 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530.12011
Soggetti	Quantum theory Thermodynamics Chemistry, Physical and theoretical Mathematical physics Spectrum analysis Microscopy Quantum Physics Physical Chemistry Mathematical Physics Spectroscopy and Microscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter1. Introduction -- Chapter2. Temperature and Voltage -- Chapter3. Coldest Measurable Temperature -- Chapter4. STM as a Thermometer -- Chapter5. Entropy -- Chapter6. Concluding Remarks.
Sommario/riassunto	This thesis presents several related advances in the field of nonequilibrium quantum thermodynamics. The central result is an ingenious proof that the local temperature and voltage measurement in a nonequilibrium system of fermions exists and is unique, placing the concept of local temperature on a rigorous mathematical footing for the first time. As an intermediate step, a proof of the positivity of the Onsager matrix of linear response theory is given -- a statement of the second law of thermodynamics that had lacked an independent proof for 85 years. A new experimental method to measure the local

temperature of an electron system using purely electrical techniques is also proposed, which could enable improvements to the spatial resolution of thermometry by several orders of magnitude. Finally, a new mathematically-exact definition for the local entropy of a quantum system in a nonequilibrium steady state is derived. Several different measures of the local entropy are discussed, relating to the thermodynamics of processes that a local observer with varying degrees of information about the microstates of the system could carry out, and it is shown that they satisfy a hierarchy of inequalities. Proofs of the third law of thermodynamics for generic open quantum systems are presented, taking into account the entropic contribution due to localized states. Appropriately normalized (per-state) local entropies are defined and are used to quantify the departure from local equilibrium.
