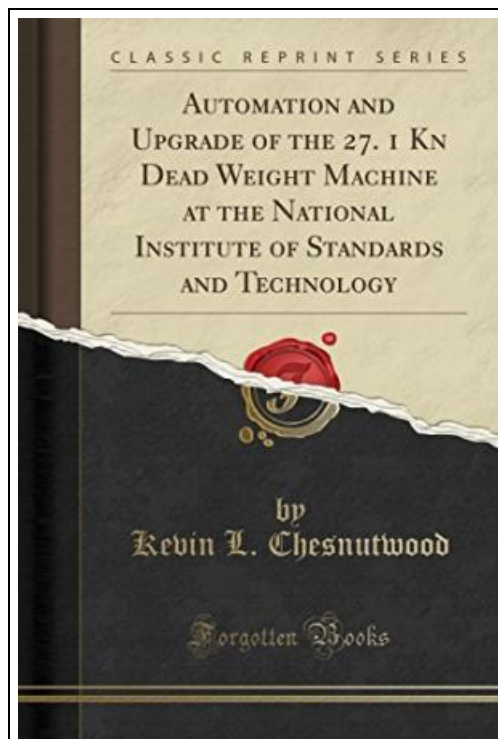


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Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Automation and Upgrade of the 27. 1 Kn Dead Weight Machine at the National Institute of Standards and Technology The National Institute of Standards and Technology (nist) in Gaithersburg, Maryland maintains six dead weight machines ranging from kn (505 lbf) to MN (1000 klbf) which act as primary force standards for calibrating elastic force measuring devices such as load cells and proving rings The machines were built in the early 19603 and were designed for manual control by an operator who would oversee the movements and functions necessary to perform dead weight calibration procedures. However, in the mid 19805, five of the six dead weight machines were automated to perform a large portion of the calibration procedure without an operator present Unfortunately at the time, the kn machine was not automated, partly because the machine would require the most complex automation system of the six dead weight machines at nist due to the large number of weights and configurations involved. This paper discusses the automation process of this machine and how the new approach utilizes numerous current technologies that overcome several pitfalls encountered on the original machine automations completed nearly 20 years ago. Section 2 provides Operating details and pictures of the machine and explains how the force is applied to a force measuring device. Section 3 examines the automation history and some of the technology used at the time the first machines were automated. Section 4 details the current approach used to automate the kn dead weight machine and the subsystems that were upgraded and/ or added to the machine. This section also highlights the improvements over the original automation systems. Section 5 concludes with recommendations on using the new...

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