

**Practical Pyrometry;  
The Theory, Calibration,  
And Use Of Instruments  
For The Measurement  
Of High Temperatures**

**Jacob R. Collins**

# Practical Pyrometry The Theory Calibrati

**Ervin Sidney 1868 Ferry, Glenn a.  
(Glenn Alfred) 1882-195 Shook, Jacob  
R. (Jacob Roland) 1891 Collins**

## **Practical Pyrometry The Theory Calibrati:**

**Practical Pyrometry** Ervin Sidney Ferry, Glenn Alfred Shook, Jacob Roland Collins, 1917      **Practical Pyrometry** Ervin Ferry, Glenn Shook, Jacob Collins, 2015-07-17 The present book was written for three classes of readers college students technically trained men who deal with processes requiring high temperature measurements and less trained observers who may make the measurements The book is practically a synopsis of Measurement of high temperatures by Burgess and Le Chatelier Wiley 1912 but is presented in different form especially suitable for the class room as minor details are omitted and in several places the text is illustrated by practical problems Also at the end of each chapter are several experiments fourteen in all which are prepared in sufficient detail for the ordinary student and which cover the field of pyrometry very satisfactorily The chapters are headed as follows 1 Standard Temperature Scales 2 Resistance Pyrometry 3 Thermoelectric Pyrometry 4 Radiation Pyrometry 5 Optical Pyrometry The text is well illustrated and several new American instruments are shown A few comments may be made on points of minor detail In the preface it is stated that the day is already past when foundrymen and steel workers depend upon the eye to judge the temperatures of their product in the various stages of its heat treatment when makers of ceramic products depend upon the indication of fusible cones etc One needs but visit industrial plants to realize this Utopian condition is far from being fulfilled Probably nine out of ten ceramic industries employ fusible cones or similar means of temperature measurement and many of the leading ceramic engineers of this country advocate their use in preference to more scientific instruments A point in history is brought out on page 3 Bolton Evolution of the thermometer states that Celsius assigned the number 100 to the temperature of melting ice and 0 to the temperature of steam The present assignment of numerals was made by Christ in 1743 Also according to Bolton Fahrenheit did not assign the number 212 to the boiling point of water as here stated The method of correcting for lead resistance of the resistance thermometer page 21 is crude Even for the most elementary students the bridge should be arranged as in Fig 7 A student will be interested in solving the mathematics of the Wheatstone bridge in order to see why the arrangement in Fig 7 compensates properly Sulphur should not be boiled in an aluminum tube as illustrated in Fig 15 With such a tube electrically heated to the top as shown in the figure the vapor can be superheated to almost any value The heating coil should be much shorter and for accurate work glass tubes are to be preferred The geometrical optics of Fig 44 is incorrect Prism M Fig 62 should be turned through 180° Recent work indicates that  $C_2$  is more nearly equal to 14 350 than 14 500 as given on page 91 On page 140 it is stated that a person of no training can get better results with a radiation pyrometer than with an optical pyrometer This is contrary to experience Published investigation has shown that persons who are totally unfamiliar with the optical pyrometer can set to within 50 or 10 °C To obtain such accuracy with a radiation pyrometer requires a great amount of experience and a consideration of many factors which are not mentioned in any text book The demand for engineers having some knowledge of practical pyrometry is becoming greater every year Many schools are offering courses in this subject and

the day is near when pyrometry will be a required course for engineers and chemists The present book should serve as a suitable text for a junior or senior course covering one semester Physical Review 1918      *Practical Pyrometry - The Theory, Calibration and Use of Instruments for the Measurement of High Temperatures* Ervin S. Ferry,2009-04 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1917 edition Excerpt 6 Columns for Discount on Purchases and Discount on Notes on the same side of the Cash Book c Columns for Discount on Sales and Cash Sales on the debit side of the Cash Book d Departmental columns in the Sales Book and in the Purchase Book Controlling Accounts The addition of special columns in books of original entry makes possible the keeping of Controlling Accounts The most common examples of such accounts are Accounts Receivable account and Accounts Payable account These summary accounts respectively displace individual customers and creditors accounts in the Ledger The customers accounts are then segregated in another book called the Sales Ledger or Customers Ledger while the creditors accounts are kept in the Purchase or Creditors Ledger The original Ledger now much reduced in size is called the General Ledger The Trial Balance now refers to the accounts in the General Ledger It is evident that the task of taking a Trial Balance is greatly simplified because so many fewer accounts are involved A Schedule of Accounts Receivable is then prepared consisting of the balances found in the Sales Ledger and its total must agree with the balance of the Accounts Receivable account shown in the Trial Balance A similar Schedule of Accounts Payable made up of all the balances in the Purchase Ledger is prepared and it must agree with the balance of the Accounts Payable account of the General Ledger The Balance Sheet In the more elementary part of the text the student learned how to prepare a Statement of Assets and Liabilities for the purpose of disclosing the net capital of an enterprise In the present chapter he was shown how to prepare a similar statement the Balance Sheet For all practical      **Practical Pyrometry; The Theory, Calibration, and Use of Instruments for the Measurement of High Temperatures** Glenn Alfred Shook,Ervin S 1868-1956 Ferry,Jacob R 1891- Joint Author Collins,2015-12-06 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      **Practical Pyrometry, the Theory, Calibration and Use of**

**Instruments for the Measurement of High Temperatures** Ferry Ervin S (Ervin Sidney 1868-1956,HardPress,2013-06  
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