

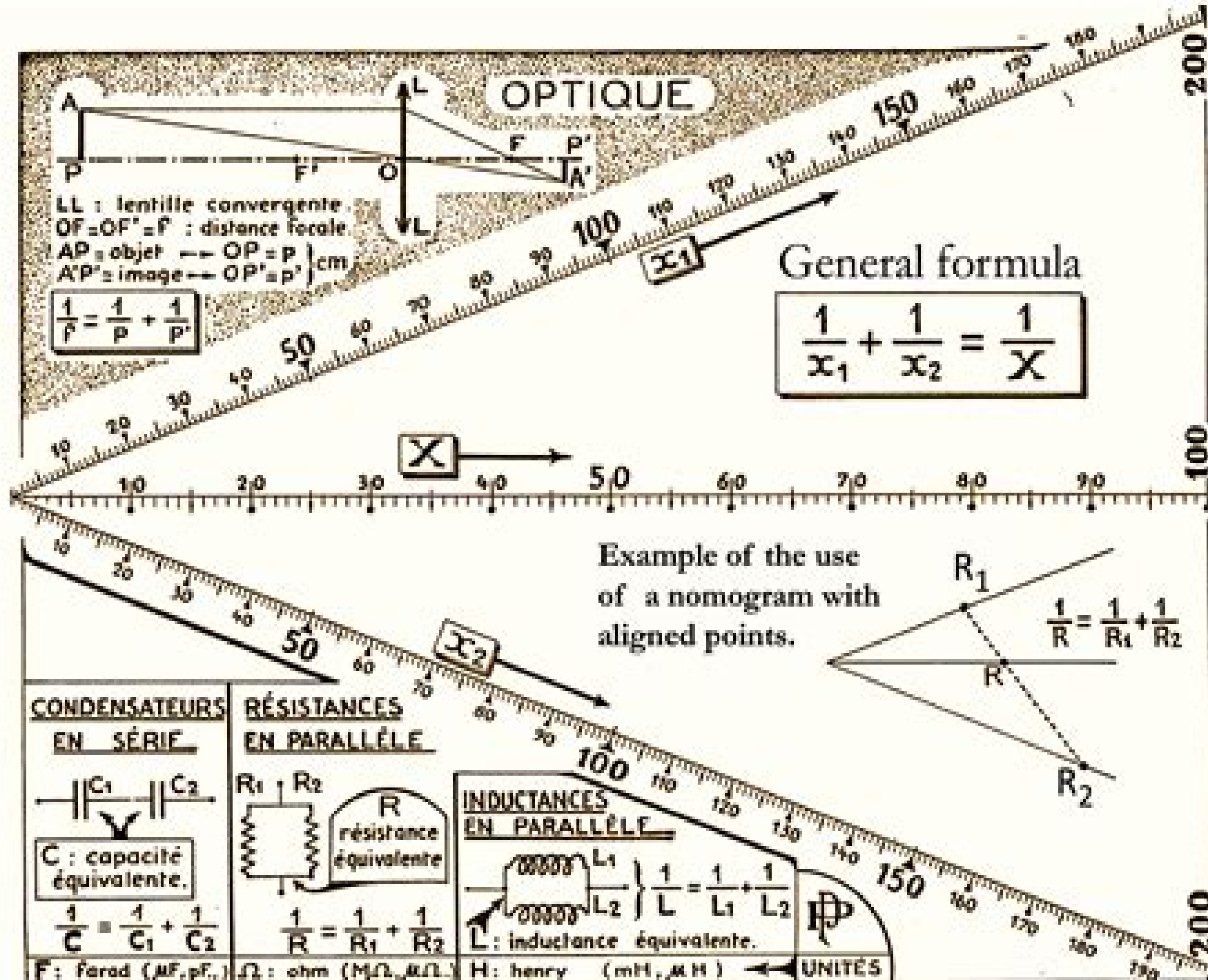
# OPTIQUE

LL : lentille convergente.  
 OF=OF'=F : distance focale.  
 AP = objet → OP = p  
 A'P' = image → OP' = p' } cm

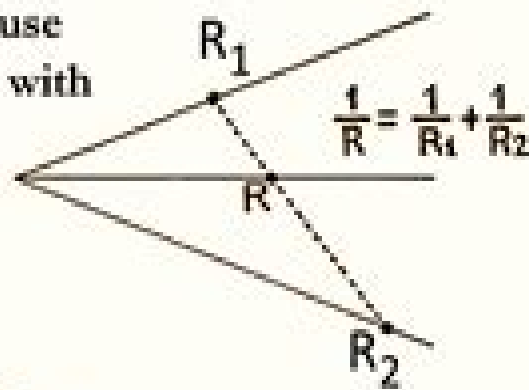
$$\frac{1}{f} = \frac{1}{p} + \frac{1}{p'}$$

General formula

$$\frac{1}{x_1} + \frac{1}{x_2} = \frac{1}{X}$$



Example of the use  
 of a nomogram with  
 aligned points.



## CONDENSATEURS EN SÉRIE

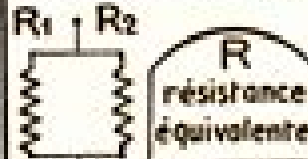


C : capacité  
 équivalente.

$$\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2}$$

F : Farad (MF, pF.)

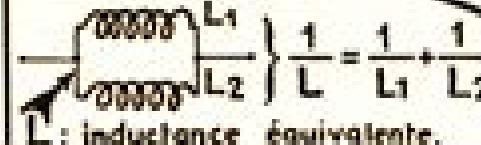
## RÉSISTANCES EN PARALLÈLE



$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$$

Ω : ohm (MΩ, kΩ)

## INDUCTANCES EN PARALLÈLE



H : henry (mH, μH)

UNITÉS

# Nomography

**J Dewey**



## Nomography:

Nomography Alexander Sander Levens, 1959      **Nomography Or the Graphic Representation of Formulae** R. K. Hezlet, 1913      A First Course in Nomography Selig Brodetsky, 1920      **The History and Development of Nomography** Harold Ainsley Evesham, 2010 Reprint Originally published as the author's thesis Ph D University of London 1982      **A Manual of Chemical Nomography** Horace Grove Deming, 1918      **A First Course in Nomography** S. Brodetsky, William P. Milne, 2013-12

An excerpt from the beginning of the INTRODUCTION 1 Object of Nomography We are all familiar with graph drawing as a means of solving equations But ordinary graphical methods are often inconvenient because a separate graph is required for practically each equation we have to solve Thus to solve the quadratic equation  $x^2 + 2x + 0 = 0$  we need to draw the graph  $y = x^2 + 2x$  and find where it is cut by the line  $y = 0$  To solve the equation  $x^2 + 2x + 2 = 0$  we must draw the graph  $y = x^2 + 2x + 2$  and similarly for other values of the coefficient of  $x$  The object of Nomography is to enable us to solve all equations of a given type by means of one diagram Thus all quadratic equations of the type  $x^2 + ax + b = 0$  can be solved by means of one graph which can be drawn once for all In the same way all cubic equations of say the form  $x^3 + ax^2 + bx + c = 0$  can be solved graphically by means of one diagram Such a diagram is called a Nomogram It is also the object of Nomography to enable us to find the value of a complicated expression graphically Let us consider e.g. the formula for the pressure  $R$  in pounds on a flat plate normal to a passing current of air viz  $R = 0.0194WS^2/V$  lbs where  $W$  is the weight of the air in pounds per cubic foot  $S$  is the area of the plate in square feet and  $V$  is the relative velocity of the air in feet per second If the pressure has to be found for a number of different plates at various velocities it is obviously convenient to have a diagram which having been constructed once for all can be used for any values of  $W$ ,  $S$  and  $V$  that are likely to occur In the present volume we shall consider in a simple manner how to construct and use nomograms for multiplication and division in formulae like the one for air pressure as well as the more general methods applicable to easy algebraic and other equations As an introduction to the nomograms for multiplication and division we shall consider first the construction and use of nomograms for addition and subtraction

Nomography John H. Fasal, 1968      Nomography L. Ivan Epstein, 1958      **Nomography** Edward Otto, 2014-07-21

Nomography deals with geometrical transformations particularly projective transformations of a plane The book reviews projective plane and collineation transformations in geometrical and algebraical terms The geometrical approach aims at permitting the use of elementary geometrical methods in drawing collineation nomograms consisting of three rectilinear scales The algebraical treatment concerns nomograms containing curvilinear scales The text explains functional scales that include the graph of a function and a logarithmic scale The book explores equations which can be represented by elementary methods without the use of a system of coordinates some equations that require algebraic calculations as well as nomograms with a binary field lattice nomograms The text investigates collineation monograms of many variables elementary geometrical methods of joining nomograms and also of nomograms consisting of two parts to be superimposed on each other

In addition to the Massau method and the criterion of Saint Robert the book also applies the criteria of nomogrammability of a function to address mathematical problems related to the analysis of the methods in constructing nomograms The book can be useful for mathematicians geometricians engineers and researchers working in the physical sciences who use graphical calculations in their work **Best Approximation by Linear Superpositions (approximate Nomography)** S. ĪA.

Khavinson,1997-01-01 This book deals with problems of approximation of continuous or bounded functions of several variables by linear superposition of functions that are from the same class and have fewer variables The main topic is the space of linear superpositions  $D$  considered as a sub space of the space of continuous functions  $C(X)$  on a compact space  $X$  Such properties as density of  $D$  in  $C(X)$  its closedness proximality etc are studied in great detail The approach to these and other problems based on duality and the Hahn Banach theorem is emphasized Also considerable attention is given to the discussion of the Diliberto Straus algorithm for finding the best approximation of a given function by linear superpositions

**Nomography** Edward Otto,1963 **Nomography** Douglas Payne Adams,1964 *Applied Nomography* Javier F. Kuong,1965 Nomography and Empirical Equations Dale Stroble Davis,1955 *Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa* United States. Bureau of Mines. Technical Library, Pittsburgh,1968

*Empirical Equations and Nomography* Dale Stroble Davis,1943 **Bibliography of Agriculture with Subject Index**,1966 Bibliography of Agriculture,1966 **The International Commission on Mathematical Instruction,**

**1908-2008: People, Events, and Challenges in Mathematics Education** Fulvia Furinghetti,Livia Giacardi,2023-01-30

The book presents the history of ICMI through a prosopographical approach In other words it pays a lot of attention to the actors of the International movement The portraits of the members of the ICMI Central Committees 1908 1936 and ICMI Executive Committees 1952 2008 and other eminent figures in ICMI history who have passed away in the first 100 years of its life are the guiding thread of the volume Each portrait includes Biographical information An outline of the various contributions made by the individual in question to the study of problems pertaining to mathematics teaching education Primary bibliography Secondary with particular attention to the publications concerning the teaching of mathematics Images photos book frontispieces relevant manuscripts The authors of the portraits 30 altogether are researchers in the history of mathematics mathematics and mathematics education The focus on the officer's role within ICMI and on his/her contributions to mathematics education make the portraits different from usual biographies In particular since most officers were active mathematicians the portraits shed light on aspects of their lesser known activity Connecting chapters place the action of these figures in the historical context and in the different phases of ICMI history Disasterman C. Coile Russell C. Coile,Russell C. Coile,2009 TITLE DISASTERMAN'S BIOGRAPHICAL MEMOIR by RUSSELL C COILE CERTIFIED EMERGENCY MANAGER WWW disasterconsultant com 1 AUTHOR BIOGRAPHY RUSSELL C COILE CEM is a Certified Emergency Manager and is a Disaster Consultant listed in Who's Who in America Who's Who in the World and Who's Who in

Science and Engineering Dr Russell C Coile received S B S M and E E degrees in Electrical Engineering from the Massachusetts Institute of Technology Cambridge Mass and a Ph D in Information Science from The City University London England Colonel Russell C Coile USAF Retired is a graduate of the Air War College Maxwell AFB AL and a graduate of the USN Naval War College Newport Rhode Island Russell C Coile now lives in Pacific Grove California with Ellen his wife They have three children Jennifer Coile is a city planner consultant Jonathan Coile is President and CEO of Champion Realty Annapolis Maryland and Andrew Coile is studying for a Ph D in Computer Science at the University Of California Santa Cruz

2 BACK COVER

disasterman S biographical memoir by RUSSELL C COILE Certified Emergency Manager is a detailed account of Dr Russell Coile s life progressing through stages of scientific geophysical research interrupted by active duty in the US Army Signal Corps and Army Air Corps during World War Two consulting work in engineering designing radio broadcast stations operations research for the US Navy and US Marine COrps working for the Federal Emergency Management Agency on disaster management on natural disasters including earthquakes and floods in California and working as a disaster consultant for the US State Department on Vice President Gore s Global Disaster Information Network program in Mexico Turkey Iceland and England Dr Coile has published a number of disaster management and was invited by the Chinese Academy of Science to come to Beijing to give a seminar on earthquake preparedness

4 KEY WORDS Disaster Preparedness Disaster Management Disaster Planning Emergency Operations Center Design Preparedness for Earthquakes Flooding hurricanes Evacuatio9n Planning Training and exercising first responders for natural disasters Community Emergency Response Teams

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