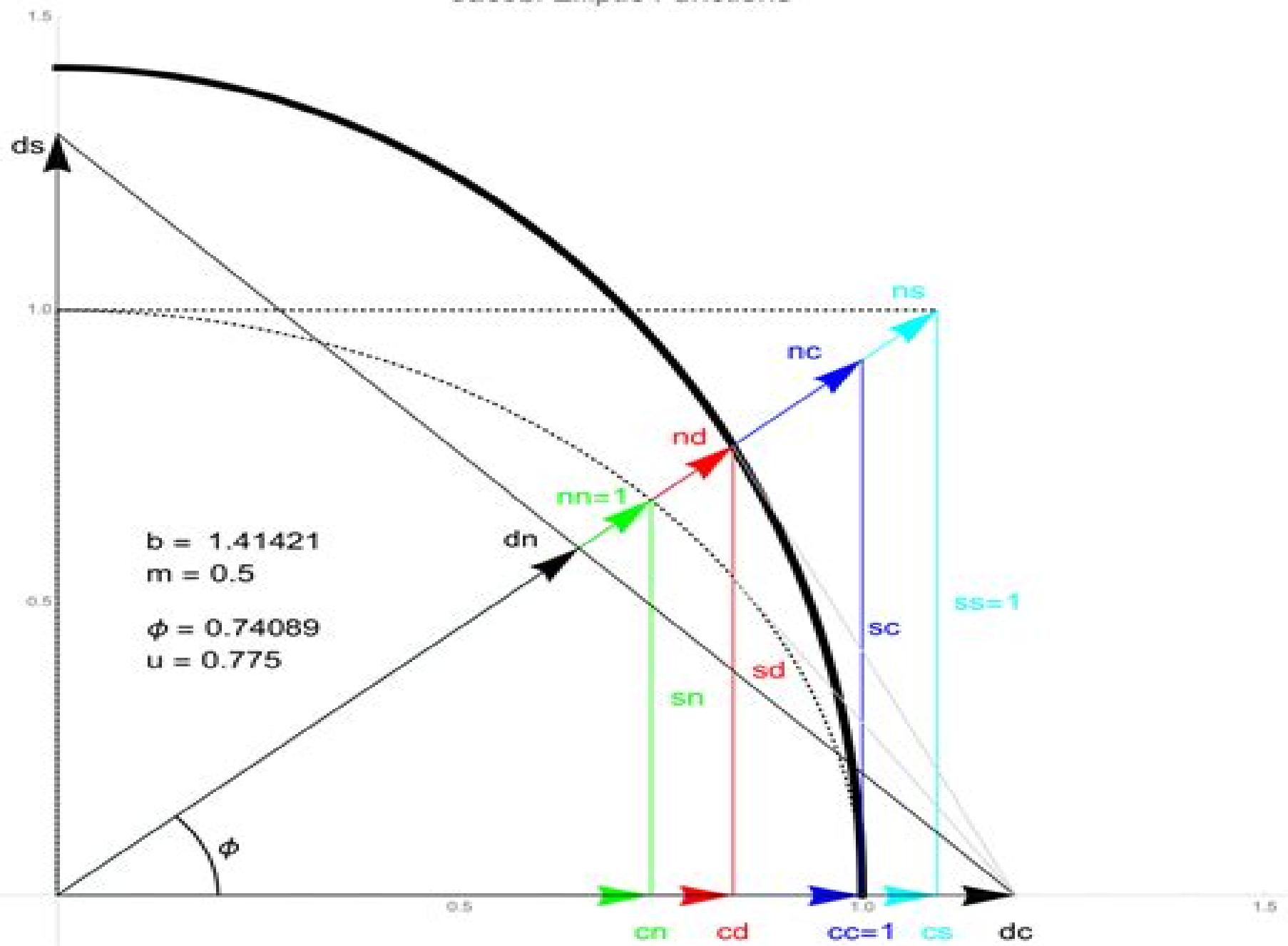


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Elliptic Functions

Derek F. Lawden



Elliptic Functions:

Elements of the Theory of Elliptic Functions Naum Il'ich Akhiezer, This book contains a systematic presentation of the theory of elliptic functions and some of its applications A translation from the Russian this book is intended primarily for engineers who work with elliptic functions It should be accessible to those with background in the elements of mathematical analysis and the theory of functions contained in approximately the first two years of mathematics and physics courses at the college level

Elliptic Functions and Elliptic Integrals Viktor Vasil'evich Prasolov, I Uri Pavlovich Solov'ev, 1997-09-16 This book is devoted to the geometry and arithmetic of elliptic curves and to elliptic functions with applications to algebra and number theory It includes modern interpretations of some famous classical algebraic theorems such as Abel's theorem on the lemniscate and Hermite's solution of the fifth degree equation by means of theta functions Suitable as a text the book is self contained and assumes as prerequisites only the standard one year courses of algebra and analysis

Elliptic Functions Peter L. Walker, 1996-11-07 The theory of elliptic functions represents a high point of classical analysis Interest in the use of these mathematical tools was recently heightened by John Wile's partial proof of Fermat's Last Theorem Now this comprehensive guide bridges the gap between elementary texts and the very high level specialist research monographs by demonstrating how the principal results can be derived using relatively modest analytical machinery In addition to their intrinsic elegance and range from Circular Functions to Gamma and Related Basic Elliptic Theta Jacobian Elliptic Integrals and Modular Functions they find uses in fields as diverse as number theory and fluid mechanics

Elliptic Functions Komaravolu Chandrasekharan, 2012-12-06 This book has grown out of a course of lectures on elliptic functions given in German at the Swiss Federal Institute of Technology Zurich during the summer semester of 1982 Its aim is to give some idea of the theory of elliptic functions and of its close connexion with theta functions and modular functions and to show how it provides an analytic approach to the solution of some classical problems in the theory of numbers It comprises eleven chapters The first seven are function theoretic and the next four concern arithmetical applications There are Notes at the end of every chapter which contain references to the literature comments on the text and on the ramifications old and new of the problems dealt with some of them extending into cognate fields The treatment is self contained and makes no special demand on the reader's knowledge beyond the elements of complex analysis in one variable and of group theory

Elliptic Functions Serge Lang, 2012-12-06 Elliptic functions parametrize elliptic curves and the intermingling of the analytic and algebraic arithmetic theory has been at the center of mathematics since the early part of the nineteenth century The book is divided into four parts In the first Lang presents the general analytic theory starting from scratch Most of this can be read by a student with a basic knowledge of complex analysis The next part treats complex multiplication including a discussion of Deuring's theory of l -adic and p -adic representations and elliptic curves with singular invariants Part three covers curves with non integral invariants and applies the Tate parametrization to give Serre's results on division points The last part

covers theta functions and the Kronecker Limit Formula Also included is an appendix by Tate on algebraic formulas in arbitrary characteristic *Elliptic Functions and Applications* Derek F. Lawden, 2013-03-09 The subject matter of this book formed the substance of a mathematical seminar which was worked by many of the great mathematicians of the last century The mining metaphor is here very appropriate for the analytical tools perfected by Cauchy permitted the mathematical argument to penetrate to unprecedented depths over a restricted region of its domain and enabled mathematicians like Abel Jacobi and Weierstrass to uncover a treasurehouse of results whose variety aesthetic appeal and capacity for arousing our astonishment have not since been equaled by research in any other area But the circumstance that this theory can be applied to solve problems arising in many departments of science and engineering graces the topic with an additional aura and provides a powerful argument for including it in university courses for students who are expected to use mathematics as a tool for technological investigations in later life Unfortunately since the status of university staff is almost wholly determined by their effectiveness as research workers rather than as teachers the content of undergraduate courses tends to reflect those academic research topics which are currently popular and bears little relationship to the future needs of students who are themselves not destined to become university teachers Thus having been comprehensively explored in the last century and being undoubtedly difficult **Elliptic Functions and Elliptic Curves** Patrick Du Val, 1973-08-02 A comprehensive treatment of elliptic functions is linked by these notes to a study of their application to elliptic curves This approach provides geometers with the opportunity to acquaint themselves with aspects of their subject virtually ignored by other texts The exposition is clear and logically carries themes from earlier through to later topics This enthusiastic work of scholarship is made complete with the inclusion of some interesting historical details and a very comprehensive bibliography *Elliptic Functions* Arthur Latham Baker, 1890 *Elliptic Functions and Elliptic Integrals* Viktor Prasolov, Yuri Solovyev, 1997-09-16 This book is devoted to the geometry and arithmetic of elliptic curves and to elliptic functions with applications to algebra and number theory It includes modern interpretations of some famous classical algebraic theorems such as Abel's theorem on the lemniscate and Hermite's solution of the fifth degree equation by means of theta functions Suitable as a text the book is self contained and assumes as prerequisites only the standard one year courses of algebra and analysis **Lectures on the Theory of Elliptic Functions** Harris Hancock, 1910 *Elliptic Functions* J. V. Armitage, W. F. Eberlein, 2006-09-28 In its first six chapters this 2006 text seeks to present the basic ideas and properties of the Jacobi elliptic functions as an historical essay an attempt to answer the fascinating question what would the treatment of elliptic functions have been like if Abel had developed the ideas rather than Jacobi Accordingly it is based on the idea of inverting integrals which arise in the theory of differential equations and in particular the differential equation that describes the motion of a simple pendulum The later chapters present a more conventional approach to the Weierstrass functions and to elliptic integrals and then the reader is introduced to the richly varied applications of the elliptic and related functions Applications spanning arithmetic

solution of the general quintic the functional equation of the Riemann zeta function dynamics orbits Euler's equations Green's functions and also probability and statistics are discussed **Translations of Mathematical Monographs**, 1962

Jacobian Elliptic Function Tables Louis Melville Milne-Thomson, 1950 *Lectures on Selected Topics in Mathematical Physics* William A. Schwalm, 2015-12-31 This volume is a basic introduction to certain aspects of elliptic functions and elliptic integrals. Primarily the elliptic functions stand out as closed solutions to a class of physical and geometrical problems giving rise to nonlinear differential equations. While these nonlinear equations may not be the types of greatest interest currently, the fact that they are solvable exactly in terms of functions about which much is known makes up for this. The elliptic functions of Jacobi or equivalently the Weierstrass elliptic functions inhabit the literature on current problems in condensed matter and statistical physics on solitons and conformal representations and all sorts of famous problems in classical mechanics. The lectures on elliptic functions have evolved as part of the first semester of a course on theoretical and mathematical methods given to first and second year graduate students in physics and chemistry at the University of North Dakota. They are for graduate students or for researchers who want an elementary introduction to the subject that nevertheless leaves them with enough of the details to address real problems. The style is supposed to be informal. The intention is to introduce the subject as a moderate extension of ordinary trigonometry in which the reference circle is replaced by an ellipse. This enterprise depends upon fewer tools and has seemed less intimidating than other typical introductions to the subject that depend on some knowledge of complex variables. The first three lectures assume only calculus including the chain rule and elementary knowledge of differential equations. In the later lectures the complex analytic properties are introduced naturally so that a more complete study becomes possible. **Elliptic Functions** Eric Harold Neville, 2014-05-23 *Elliptic Functions A Primer* defines and describes what is an elliptic function, attempts to have a more elementary approach to them and drastically reduce the complications of its classic formulae from which the book proceeds to a more detailed study of the subject while being reasonably complete in itself. The book squarely faces the situation and acknowledges the history of the subject through the use of twelve allied functions instead of the three Jacobian functions and includes its applications for double periodicity lattices, multiples and sub-multiple periods as well as many others in trigonometry. Aimed especially towards but not limited to young mathematicians and undergraduates alike, the text intends to have its readers acquainted with elliptic functions, pass on to a study in Jacobian elliptic functions and bring a theory of the complex plane back to popularity. *Elliptic Functions* Arthur Baker, 2013-07-30 The first step taken in the theory of Elliptic Functions was the determination of a relation between the amplitudes of three functions of either order such that there should exist an algebraic relation between the three functions themselves of which these were the amplitudes. It is one of the most remarkable discoveries which science owes to Euler. In 1761 he gave to the world the complete integration of an equation of two terms, each an elliptic function of the first or second order, not separately integrable. This integration

introduced an arbitrary constant in the form of a third function related to the first two by a given equation between the amplitudes of the three In 1775 Landen an English mathematician published his celebrated theorem showing that any arc of a hyperbola may be measured by two arcs of an ellipse an important element of the theory of Elliptic Functions but then an isolated result The great problem of comparison of Elliptic Functions of different moduli remained unsolved though Euler in a measure exhausted the comparison of functions of the same modulus It was completed in 1784 by Lagrange and for the computation of numerical results leaves little to be desired The value of a function may be determined by it in terms of increasing or diminishing moduli until at length it depends upon a function having a modulus of zero or unity For all practical purposes this was sufficient The enormous task of calculating tables was undertaken by Legendre His labors did not end here however There is none of the discoveries of his predecessors which have not received some perfection at his hands and it was he who first supplied to the whole that connection and arrangement which have made it an independent science The theory of Elliptic Integrals remained at a standstill from 1786 the year when Legendre took it up until the year 1827 when the second volume of his *Traité des Fonctions Elliptiques* appeared Scarcely so however when there appeared the researches of Jacobi a Professor of Mathematics in Königsberg in the 123d number of the *Journal of Schumacher* and those of Abel Professor of Mathematics at Christiania in the 3d number of *Crelle's Journal* for 1827 These publications put the theory of Elliptic Functions upon an entirely new basis The researches of Jacobi have for their principal object the development of that general relation of functions of the first order having different moduli of which the scales of Lagrange and Legendre are particular cases It was to Abel that the idea first occurred of treating the Elliptic Integral as a function of its amplitude Proceeding from this new point of view he embraced in his speculations all the principal results of Jacobi Having undertaken to develop the principle upon which rests the fundamental proposition of Euler establishing an algebraic relation between three functions which have the same moduli dependent upon a certain relation of their amplitudes he has extended it from three to an indefinite number of functions and from Elliptic Functions to an infinite number of other functions embraced under an indefinite number of classes of which that of Elliptic Functions is but one and each class having a division analogous to that of Elliptic Functions into three orders having common properties The discovery of Abel is of infinite moment as presenting the first step of approach towards a more complete theory of the infinite class of ultra elliptic functions destined probably ere long to constitute one of the most important of the branches of transcendental analysis and to include among the integrals of which it effects the solution some of those which at present arrest the researches of the philosopher in the very elements of physics

An Introduction to the Theory of Elliptic Functions and Higher Transcendentals Ganesh Prasad, 1928

Theta functions, elliptic functions and π Heng Huat Chan, 2020-07-06 This book presents several results on elliptic functions and π using Jacobi's triple product identity as a tool to show surprising connections between different topics within number theory such as theta functions Eisenstein series the Dedekind delta function and Ramanujan's work on π The

included exercises make it ideal for both classroom use and self study The Applications of Elliptic Functions Sir George Greenhill, 1892 *Elliptic Curves* Henry McKean, Victor Moll, Victor H. Moll, 1999-08-13 The subject of elliptic curves is one of the jewels of nineteenth century mathematics originated by Abel Gauss Jacobi and Legendre This 1997 book presents an introductory account of the subject in the style of the original discoverers with references to and comments about more recent and modern developments It combines three of the fundamental themes of mathematics complex function theory geometry and arithmetic After an informal preparatory chapter the book follows an historical path beginning with the work of Abel and Gauss on elliptic integrals and elliptic functions This is followed by chapters on theta functions modular groups and modular functions the quintic the imaginary quadratic field and on elliptic curves Requiring only a first acquaintance with complex function theory this book is an ideal introduction to the subject for graduate students and researchers in mathematics and physics with many exercises with hints scattered throughout the text

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