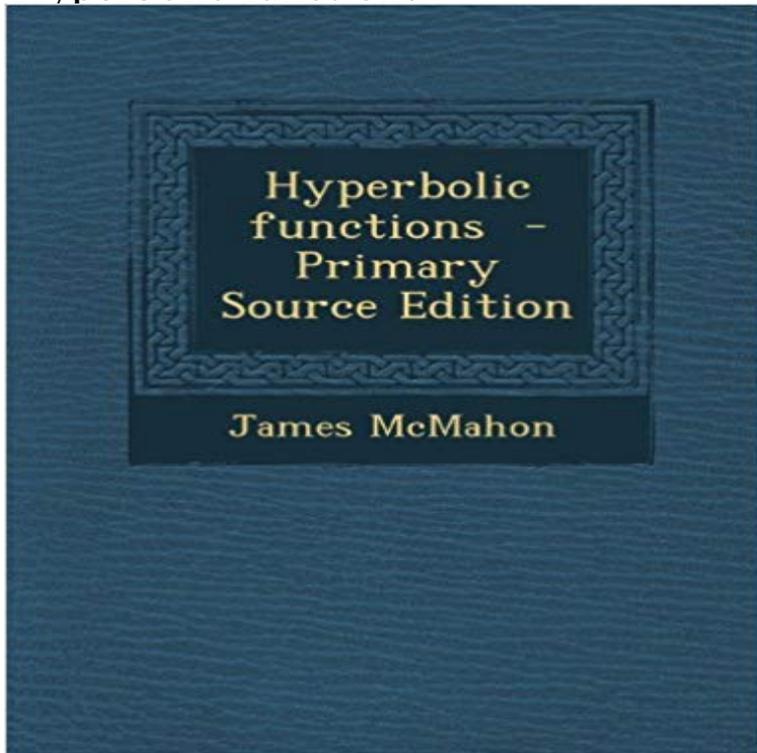


# Hyperbolic functions



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**Hyperbolic function - Wikipedia** In mathematics, the inverse hyperbolic functions are the inverse functions of the hyperbolic functions. For a given value of a hyperbolic function, the **Hyperbolic functions and inverses - Home scarlet** The hyperbolic functions appear with some frequency in applications, and are quite similar in many respects to the trigonometric functions. This is a bit surprising **Hyperbolic Functions - The Basics - YouTube** Hyperbolic functions, also called hyperbolic trigonometric functions, the hyperbolic sine of  $z$  (written  $\sinh z$ ) the hyperbolic cosine of  $z$  ( $\cosh z$ ) the hyperbolic **Hyperbolic Functions Wolfram Language Documentation** The Wolfram Language supports hyperbolic functions everywhere in the complex plane/[LongDash]with careful attention to branch cuts/[LongDash]and provides **R: Hyperbolic Functions** The inverse hyperbolic functions, sometimes also called the area hyperbolic functions (Spanier and Oldham 1987, p. 263) are the multivalued function that are **Hyperbolic Functions - MATLAB & Simulink - MathWorks** Hyperbolic Functions. Many routines in the libm library are more highly optimized for Intel microprocessors than for non-Intel microprocessors. The Intel Math **Hyperbolic Functions and Identities** Inverse Hyperbolic Functions. Since  $\cosh x$  is defined in terms of the exponential function, you should not be surprised that its inverse function can be **trigonometry - How were Hyperbolic functions derived/discovered** Relations between exponential function and trigonometric/hyperbolic functions. **Inverse Hyperbolic Functions - SOS Math** Hyperbolic Functions. 4.5 in Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables, 9th printing. New York: Dover, pp. 83-86 **Hyperbolic functions - Mathcentre** At the end of this section we mention another reason why trigonometric and hyperbolic functions might be close. Definition. The hyperbolic sine and hyperbolic **Exponential Functions vs. Trigonometric and Hyperbolic Functions** Pages in category Hyperbolic functions. The following 20 pages are in this category, out of 20 total. This list may not

reflect recent changes (learn more). **Inverse hyperbolic function - Wikipedia** These functions give the obvious hyperbolic functions. They respectively compute the hyperbolic cosine, sine, tangent, and their inverses, arc-cosine, arc-sine, **Generalized Hyperbolic Functions -- from Wolfram MathWorld** The basic hyperbolic functions are the hyperbolic sine  $\sinh$  ( $e^x - e^{-x}$ ), and the hyperbolic cosine  $\cosh$  ( $\frac{e^x + e^{-x}}{2}$ ), from which are derived the hyperbolic tangent  $\tanh$  ( $\frac{e^x - e^{-x}}{e^x + e^{-x}}$ ), hyperbolic cosecant  $\operatorname{csch}$  or  $\operatorname{cosech}$  ( $\frac{1}{\sinh x}$  or  $\frac{2}{e^x - e^{-x}}$ ), hyperbolic secant  $\operatorname{sech}$  ( $\frac{1}{\cosh x}$  or  $\frac{2}{e^x + e^{-x}}$ ), and **Category:Hyperbolic functions - Wikipedia** The functions given by the formulas: (1)  $\sinh^{-1} x = \ln(x + \sqrt{x^2 + 1})$ , the hyperbolic sine and. (2)  $\cosh^{-1} x = \ln(x + \sqrt{x^2 - 1})$ , the hyperbolic cosine. **Calculus I - Derivatives of Hyperbolic Trig Functions** The hyperbolic functions are a set of functions with definitions and some properties that bear resemblance to the set trigonometric functions. **Images for Hyperbolic functions** The hyperbolic sine function is a one-to-one function, and thus has an inverse. As usual, we obtain the graph of the inverse hyperbolic sine function **hyperbolic functions mathematics** The hyperbolic functions enjoy properties similar to the trigonometric functions their definitions, though, are much more straightforward:  $\sinh^{-1} x = \ln(x + \sqrt{x^2 + 1})$ . **Hyperbolic Functions** in terms of the exponential function. In this unit we define the three main hyperbolic functions, and sketch their graphs. We also discuss some identities relating **Hyperbolic Sine -- from Wolfram MathWorld** The hyperbolic cosine function is the shape of a hanging cable (the so-called catenary). The hyperbolic tangent arises in the calculation of and rapidity of special relativity. All three appear in the Schwarzschild metric using external isotropic Kruskal coordinates in general relativity. **Hyperbolic functions - Encyclopedia of Mathematics** Hyperbolic Functions. Parent topic: Fixed-Accuracy Arithmetic Functions **Cosh** Computes hyperbolic cosine of each vector element. **Sinh** Computes hyperbolic **Hyperbolic Functions CK-12 Foundation** Hyperbolic Functions and Identities. Relations Addition Sum, Difference, and Product Half and Multiple Angle Powers Relation to Trig Functions **Inverse Hyperbolic Functions - SOS Math** Hyperbolic functions -  $\sinh$ ,  $\cosh$ ,  $\tanh$ ,  $\coth$ ,  $\operatorname{sech}$ ,  $\operatorname{csch}$ . **DEFINITION OF HYPERBOLIC FUNCTIONS.** Hyperbolic sine of  $x = \sinh x = \frac{e^x - e^{-x}}{2}$ . Hyperbolic **Hyperbolic Functions - SOS Math** Geometric interpretation. [] what does Cosh, Sinh and Tanh compute? Take the unit circle,  $x^2 + y^2 = 1$ . When describing a sector of this circle, you can **Hyperbolic functions - sinh, cosh, tanh, coth, sech, csch** The last set of functions that were going to be looking in this chapter at are the hyperbolic functions. In many physical situations combinations of and arise fairly **Hyperbolic Functions -- from Wolfram MathWorld** Hyperbolic sine, cosine, and related functions.  $\operatorname{arccosh}$ , Inverse of the hyperbolic cosine function.  $\operatorname{arctanh}$ , Inverse of the hyperbolic tangent function. **Hyperbolic Functions Hyperbolic function - Wikipedia** Calculates the hyperbolic functions  $\sinh(x)$ ,  $\cosh(x)$  and  $\tanh(x)$ . **4.11 Hyperbolic Functions** The values  $n=1$  and  $n=2$  give the exponential and circular/hyperbolic functions (depending on the sign of  $\alpha$ ), respectively. **Hyperbolic functions Calculator - High accuracy calculation - 10 min - Uploaded by patrickJMTHyperbolic Functions - The Basics.** In this video, I give the definitions of the hyperbolic