The study of surfaces with constant mean curvature (CMC) is one of the main topics in classical differential geometry. Moreover, CMC surfaces are important mathematical models for the physics of interfaces in the absence of gravity, where they separate two different media or for capillary phenomena. Further, as most techniques used in the theory of CMC surfaces not only involve geometric methods but also PDE and complex analysis, the theory is also of great interest for many other mathematical fields.While minimal surfaces and CMC surfaces in general have already been treated in the literature, the present work is the first to present a comprehensive study of â€œcompact surfaces with boundaries,â€• narrowing its focus to a geometric view. Basic issues include the discussion whether the symmetries of the curve inherit to the surface; the possible values of the mean curvature, area and volume; stability; the circular boundary case and the existence of the Plateau problem in the non-parametric case. The exposition provides an outlook on recent research but also a set of techniques that allows the results to be expanded to other ambient spaces. Throughout the text, numerous illustrations clarify the results and their proofs.The book is intended for graduate students and researchers in the field of differential geometry and especially theory of surfaces, including geometric analysis and geometric PDEs. It guides readers up to the state-of-the-art of the theory and introduces them to interesting open problems.

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Abstract. We prove that a spacelike graph of constant mean curvature H = 0 in the The graph ?u is a CMC spacelike surface with boundary ?? if and only if the .. Monographs in Mathematics, Springer, Heidelberg, Asymptotic analysis for surfaces with large constant mean curvature and free boundaries free boundary in a domain necessarily concentrate at a critical point of the mean curvature of the boundary of this domain. Classics in Mathematics, Springer-Verlag, Berlin () Translations of Mathematical Monographs, vol. Free Shipping. Buy Constant Mean Curvature Surfaces with Boundary at Walmart .com. Stores. Cart. 0. Books; /Mathematics Books; /Geometry; /Differential. Lecture Notes in Mathematics, Springer-Verlag , (). Schwartz L.: [1] , â€“ () [3] On surfaces of constant mean curvature which span a given space curve. Math. Z. [5] Boundary curvatures and the solvability of Dirichlet's problem. Proc. Monographs, Providence, R.I., Amer. Mathem. Soc. Abstract: We show that for an axially symmetric anisotropic surface energy, only stable disc-type surfaces Palmer, Stable constant mean curvature surfaces with circular boundary, Proc. Amer. Math. [2] Yoshikazu Giga, Surface evolution equations, Monographs in Mathematics, vol. , Springer-Verlag, Berlin,

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