

tight polyhedral submanifolds and pdf

tight submanifolds, smooth and polyhedral 55 For two-dimensional surfaces, the TPP restricts not only the number of max-ima and minima of height functions but also the total number of critical points.

Tight Submanifolds, Smooth and Polyhedral - MSRI

A typical result relates tight submanifolds to combinatorial properties of their convex hulls. The chapters on higher dimensions generalize the 2-dimensional case using concepts from combinatorics and topology, such as combinatorial Morse theory.

Tight Polyhedral Submanifolds and Tight Triangulations

and PL-taut submanifolds Thomas F. Banchoff and Wolfgang Kühnel Abstract: We present polyhedral models for isoparametric families in the sphere with at most three principal curvatures. Each member of the family (including the analogues of the focal sets) is tight in the boundary complex of an ambient convex polytope.

Tight polyhedral models of isoparametric families, and PL

2. Tight polyhedral surfaces This chapter is essentially self-contained. It deals with the 2-dimensional case where tightness is a quite elementary property. A surface is a

[Lecture Notes in Mathematics] Tight Polyhedral

Abstract. We begin by defining and studying tightness and the two-piece property for smooth and polyhedral surfaces in three-dimensional space. These results are then generalized to surfaces with boundary and with singularities, and to surfaces in higher dimensions.

Tight submanifolds, smooth and polyhedral - CORE

These results are then generalized to surfaces with boundary and with singularities, and to surfaces in higher dimensions. Later sections deal with generalizations to the case of smooth and polyhedral submanifolds of higher dimension and codimension, in particular highly connected submanifolds.

Tight submanifolds, smooth and polyhedral, Tight and Taut

Tight polyhedral submanifolds and tight triangulations. [Wolfgang Kühnel] -- This volume is an introduction and a monograph about tight polyhedra. The treatment of the 2-dimensional case is self-contained and fairly elementary.

Tight polyhedral submanifolds and tight triangulations

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A TIGHT POLYHEDRAL IMMERSION IN THREE-SPACE OF THE REAL PROJECTIVE PLANE WITH ONE HANDLE ... A TIGHT POLYHEDRAL PROJECTIVE PLANE WITH ONE HANDLE 9 ... T. F. Banchoff and

W. Kühnel, "Tight submanifolds, smooth and polyhedral", in *Tight and Taut Submanifolds*, edited by T. E. Cecil and S.-S. Chern, Cambridge U. Press, 1997.

A TIGHT POLYHEDRAL IMMERSION IN THREE-SPACE OF THE REAL

isoparametric family pl-taut submanifolds tight polyhedral model ambient convex polytope extended abstract certain bier sphere triangulation tight polyhedron wolfgang hnel abstract focal set boundary complex msc classification veronese surface present polyhedral model polyhedral analogue complex projective plane polyhedral isoparametric family ...

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Tight and Taut Submanifolds MSRI Publications Volume 32, 1997 Bibliography on Tight, Taut and Isoparametric Submanifolds ... [1997] "Tight submanifolds, smooth and polyhedral", pp. 51-118 in *Tight and Taut Submanifolds*, edited by T. E. Cecil and S.-S. Chern, Cambridge U. Press, 1997.

Monthly Geometry Amer. Math. Soc. Ann. - MSRI

List of Publications of Thomas F. Banchoff [1] Tightly Embedded 2-dimensional Polyhedral Manifolds, *Amer. J. Math.*, 87 (1965), 462-472. [2] Critical Points and Curvature for Embedded Polyhedra, *J. Differential Geometry*, 1

List of Publications of Thomas F. Banchoff - Brown University

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