# Case when the domain is the strip on the plane

$$K = -\frac{1}{(1+cy)^4} - \frac{cy(2+cy-y)}{(1+cy)^4}$$

$$c \ge 1 - \frac{2}{y} \ \forall y \in (0,2a), i.e. \ c \ge 1 - \frac{1}{a}$$

$$k = \max_{y \in (0,2a)} \left[ -\frac{1}{(1+cy)^4} \right] = -\frac{1}{(1+2ca)^4}$$

### **Isoperimetric Inequalities In Mathematical Physics**

G.. Polya, G.. Szego

#### **Isoperimetric Inequalities In Mathematical Physics:**

Isoperimetric inequalities in mathematical physics, by G. Polya and G. Szego George Pólya, Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday Fritz Gesztesy, 2007 This Festschrift had its origins in a conference called SimonFest held at Caltech March 27 31 2006 to honor Barry Simon s 60th birthday It is not a proceedings volume in the usual sense since the emphasis of the majority of the contributions is on reviews of the state of the art of certain fields with particular focus on recent developments and open problems The bulk of the articles in this Festschrift are of this survey form and a few review Simon s contributions to aparticular area Part 1 contains surveys in the areas of Quantum Field Theory Statistical Mechanics Nonrelativistic Two Body and N Body Quantum Systems Resonances Quantum Mechanics with Electric and Magnetic Fields and the Semiclassical Limit Part 2 contains surveys in the areas of Random and Ergodic Schrodinger Operators Singular Continuous Spectrum Orthogonal Polynomials and Inverse Spectral Theory In several cases this collection of surveys portrays both the history of a subject and its current state of the art A substantial part of the contributions to this Festschrift are survey articles on the state of the art of certain areas with special emphasis on open problems This will benefit graduate students as well as researchers who want to get a quick yet comprehensive introduction into an area covered in this volume Micromechanics and Inhomogeneity G.J. Weng, M. Taya, H. Abe, 2012-12-06 Toshio Mura has written extensively on micromechanics over the years and in part due to his writings and many others in the field micromechanics has gradually emerged as a recognized discipline in the study of mechanics of materials The idea is to bring both the mechanics and physics on the micro scopic level to the macroscopic scale so that the deformation and fracture processes of materials can be better understood While much apparently remains to be done this approach has already shed new light on certain selected topics and has proved to be fruitful It is indeed a happy occasion to celebrate both Toshio's upcoming 65th birthday and the emergence of this young science at the same time The volume contains thirty seven original articles on the related topics of micromechanics and inhomogeneity it is presented to Toshio by his friends colleagues and admirers as a wish for his good health and continuing pro ductivity The contributors belong to both the applied mechanics and the materials communities all with a common belief that micromechanics is an indispensable area of research It is hoped that this somewhat balanced structure will make the volume more useful to a wider range of readers and that in the meantime it will still reflect more or less the spectrum of Toshio's lifelong works As

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including the historical background and mathematical methods used It features selected important results and proofs that not only proves but also explains the results **Sobolev Spaces** Vladimir Maz'ya,2013-12-21 The Sobolev spaces i e the classes of functions with derivatives in L occupy p an outstanding place in analysis During the last two decades a substantial contribution to the study of these spaces has been made so now solutions to many important problems connected with them are known In the present monograph we consider various aspects of Sobolev space theory Attention is paid mainly to the so called imbedding theorems Such theorems originally established by S L Sobolev in the 1930s proved to be a useful tool in functional analysis and in the theory of linear and nonlinear par tial differential equations. We list some questions considered in this book 1 What are the requirements on the measure f1 for the inequality g Geometric Analysis, Mathematical Relativity, and Nonlinear Partial Differential Equations Mohammad Ghomi, 2012-09-25 This volume presents the proceedings of the Southeast Geometry Seminar for the meetings that took place bi annually between the fall of 2009 and the fall of 2011 at Emory University Georgia Institute of Technology University of Alabama Birmingham and the University of Tennessee Talks at the seminar are devoted to various aspects of geometric analysis and related fields in particular nonlinear partial differential equations general relativity and geometric topology Articles in this volume cover the following topics a new set of axioms for General Relativity CR manifolds the Mane Conjecture minimal surfaces maximal measures pendant drops the Funk Radon Helgason method ADM mass and capacity and extrinsic curvature in metric spaces Optimization Catherine Bandle, Alfred Wagner, 2023-06-19 This book investigates how domain dependent quantities from geometry and physics behave when the domain is perturbed Of particular interest are volume and perimeter preserving perturbations The first and second derivatives with respect to the perturbation are exploited for domain functionals like eigenvalues energies and geometrical quantities. They provide necessary conditions for optimal domains and are useful when global approaches like symmetrizations fail The book is exampledriven and illustrates the usefulness of domain variations in various applications **Convex Bodies** Rolf Schneider, 1993-02-25 A comprehensive introduction to convex bodies giving full proofs for some deeper theorems which have never previously been brought together **Applied Functional Analysis** D.H. Griffel, 2002-06-14 This introductory text examines many important applications of functional analysis to mechanics fluid mechanics diffusive growth and approximation Discusses distribution theory Green's functions Banach spaces Hilbert space spectral theory and variational techniques Also outlines the ideas behind Frechet calculus stability and bifurcation theory and Sobolev spaces 1985 edition Includes 25 figures and 9 appendices Supplementary problems Indexes Boundaries of a Complex World Andrei Ludu, 2022-09-24 The 2nd edition of this book provides novel topics and studyies in boundaries of networks and Big Data Systems The central theme of this book is the extent to which the structure of the free dynamical boundaries of a system controls the evolution of the system as a whole Applying three orthogonal types of thinking mathematical constructivist and morphological it illustrates these concepts using applications to selected problems from the

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Symmetrization in Analysis Albert Baernstein II,David Drasin,Richard Laugesen,2019-03-14 Develops the modern theory of symmetrization including applications to geometry PDEs and real and complex analysis

Spectral Geometry Pierre H. Berard,2006-11-14

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