Custom Process for Energy-Saving Melt-Draw Tapered Type Backbone Network

Overview

A network-level green energy-saving mechanism over the backbone networks is proposed in this study: for one thing, in the global view, a smallest remaining capacity first (SRCF) based green routing algorithm is used to plan the global routing paths in the networks . A network-level green energy-saving mechanism over the backbone networks is proposed in this study: for one thing, in the global view, a smallest remaining capacity first (SRCF) based green routing algorithm is used to plan the global routing paths in the networks . In this paper, we propose a new Segment Routing (SR)-based optimization algorithm that aims at reducing the energy consumption of networks during such low-trafic periods. It uses the trafic steering capabilities of SR to remove trafic from as many links as possible to allow the respective hardware. In some cases, features with vertical sidewall can not be used, since it is not feasible to have good step coverage at the sharp corner in following spray coating or sputtering processes. This approach is based on the solution of an optimization problem that has a Mixed Integer NonLinear Programming (MINLP) formulation.

Article Content

Tapered roller bearings

SKF offers a range of tapered roller bearings for various applications, providing high stiffness and accommodating combined loads.

Tapered Roof Insulation Layouts for Effective Drainage and Energy ...

Designing a tapered roof insulation layout is essential for optimizing drainage on flat and low-slope roofs while enhancing energy conservation. This method prevents water ponding,

Energy-aware traffic engineering in hybrid SDN/IP backbone networks

In this study, we investigate the energy-efficient traffic engineering problem in hybrid SDN/Internet protocol (IP) networks. First, we formulate the mathematical optimization model considering the

A novel process for the production of tapered roller bearing ...

This study provides a new efficient, material-saving, and energy-saving manufacturing method for the production of tapered roller bearing rings, which may play a significant role in

Tapered Roof Insulation Layout: Design, Calculation, and Installation

Tapered roof insulation layout is a proven approach to create drainage gradients on flat and low-slope roofs while delivering reliable thermal performance. This guide focuses on American

How To Increase Productivity with Tapered End Mills

The benefits of tapered end mills become clear when considering the increase in cross-sectional area compared to tools with straight reaches. Generally...

A method for tapered deep reactive ion etching using a modified

Roxhed et al reported on a method for etching tapered sidewalls in silicon using DRIE based on consecutive switching between anisotropic etching using the Bosch process and

A multi-step etch method for fabricating slightly tapered through ...

In this paper, a multi-step etching method based on Bosch process was investigated to fabricate a slightly tapered via. The diameter of vias was scaled from 40 to 100 μm. Isotropic etching

(PDF) Energy-saving Algorithms for the Control of Backbone

In this work, we analyze the design of green routing algorithms and evaluate the achievable energy savings that such mechanisms could allow in several realistic network scenarios.

Micro-EDM drilling of tapered holes for industrial applications

This papers details the development of a novel technique to produce reverse tapered micro-holes (EDM electrode exit diameter is larger than EDM electr

QoS-guaranteed energy saving routing strategy using SDN

This paper proposes a software defined network (SDN) based routing strategy which is especially aimed at QoS-guaranteed energy saving for backbone networks.

Development and Characterization of Tapered Silicon Etch Process by ...

Following an overview of the reactive ion etch (RIE) process modeling and its use in simulating deep silicon via etch profile for TSV application, experimental characterization work has been done for a

Process efficiency in polymer extrusion: Correlation between the energy ...

Then, an attempt was made to explore correlations between melt thermal stability and energy demand in polymer extrusion under different process settings and screw geometries. A

Technical Association of the Pulp & Paper Industry Inc.

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Tapered Roof Insulation Layout: Strategies, Best Practices, And Key ...

Real-world case studies showcase best practices for tapered roof insulation layout in a variety of building types and climates. Case Study 1: Commercial Retrofit, Midwest U.S.

Tapered Features and Reverse Taper

Typical sidewall profiles created by the Bosch process: (a) Sidewall profile with positive taper, (b) Sidewall profile, and (c) Sidewall profile with reverse taper.

Tapered Roof Insulation: A Guide to Drainage, Energy

tapered roof insulation improves drainage, boosts energy efficiency, and protects your building. Learn materials, design tips, and benefits.

Green Segment Routing for Improved Sustainability of Backbone

Based on data from a Tier-1 ISP and a public available dataset, we show that our approach allows for up to 70 % of the overall linecards to be switched off, corresponding to an around 56 % reduction of the

What Does Backbone Mean in Neural Networks?

Convolutional neural networks Recurrent neural networks For instance, convolutional neural networks work better with images, while recurrent

Backbone Network Modernization

The construction of 3D backbone networks does not require extra regeneration boards. This reduces costs and E2E latency and shortens time to market (TTM). In addition, 3D backbone networks

Green Segment Routing for Improved Sustainability of Backbone Networks

Abstract—Improving the energy eficiency of Internet Service Provider (ISP) backbone networks is an important objective for ISP operators. In these networks, the overall trafic load through-out the day

Minimizing energy and link utilization in ISP backbone networks with ...

In this work, we are interested in the problem of energy-aware Traffic Engineering while using multi-path routing (ETE-MPR) to minimize link capacity utilization in ISP backbone networks.

Energy-saving algorithms for the control of backbone

This paper presents a general framework for flexible and cognitive backbone network management which leads to the minimization of the energy

Network-level Green Energy-saving Mechanism for Backbone Networks

In order to evaluate the proposed mechanism in the study comprehensively, the topologies of three typical backbone networks, namely CERNET2, GéANT, and INTERNET2, are chosen.

Tapered Insulation System for Flat Roofs – New England Metal Roof

Tapered insulation systems for flat roofs are engineered assemblies that create positive roof slope using rigid insulation to improve drainage, extend membrane life, and reduce ponding

Melt-spinning 4 processes

A melt-spinning line is shown schematically in Fig. 4.1. Strictly speaking, the line sketch is representative of melt-spinning at relatively low speeds using polymer chips as the starting material. There are two

Rolling bearings

It provides general information about rolling bearings (section A), explains the bearing selection process (section B), and presents three examples on how to apply the bearing selection process for various

Melt drawing as a route to high performance polyethylene

The advantage of melt drawing over direct melt extrusion ithat itallows awider operational latitude and thus does notrequire sucharefully controlled conditions. The morphology produced by melt

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