

the fiber society

for the advancement of scientific knowledge
pertaining to fibers, fiber based products, and fibrous materials



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50th Anniversary Technical Conference, 1990 Princeton, NJ

Papers Presented

"Understanding and Control of Textile Fiber Structure"
John W.S. Hearle

"Technological Developments in Man-Made Fibers and Related Challenges to Fiber Science"
Masao Takahashi

"Structure and Properties of Collagen"
Eric Baer

"Fibrillar Hierarchies - Fibrils within Fibers and Filaments"
T. Waller George

"Ultra Strong Fibers from Flexible Macromolecules"
Dusan C. Prevorsek

"Morphology of Rigid Rod Polymer Fibers"
E. L. Thomas and D. C. Martin

"Ceramic Fibers: Properties, structures and Temperature Limitations"
A. R. Bunsell

"Silicon Carbide Fibers from Slurry Spinning"
Lee A. Silverman

"Statistical Failure of Fiber Composite Monolayers using Video Microphotographic Techniques"
H. Daniel Wagner

"Interpreting Fiber Fatigue via Deformation Kinetics"
G. A. Pai, S. K. Batra and S. P. Hersh

- "Fiber Dynamic Properties in Relation to dye Diffusion"
Hawthorn A. Davis
- "Fiber Formation by High Speed Spinning under Stress"
K. Kudo, S. Murasi and H. Hiram
- "The Development of Physical Properties during Spinning and cold Drawing of PET"
Charles M. King
- "Characterization of the Amorphous Phase of Nylon 6 Fibers by X-Ray diffraction Techniques"
N. S. Murthy, S. T. Correale and R. A. F. Moore
- "Structure and Dyeing Properties of High Speed Spun Polyester Blend Fibers"
R. Gutmann and H. Herlinger
- "Ultra Oriented High Tenacity PET Fibers Formed by a Modified High Speed Spinning Process"
J. A. Cuculo, P.A. Tucker, G. Y. Chen and C. Y. Lin
- "Spin Finish Distribution in Multifilament Yarns"
Y. K. Kamath and H. D. Weigmann
- "Friction Measurements and Finish Performance"
G. D. Lees
- "Local variations in the Mechanical Properties of Synthetic Filaments"
M. M. Schoppee and John Skelton
- "The Distribution of Fiber Mechanical Properties in Bundles from Acoustic Emission Analysis"
Arkadi B. Gellar
- "Textile Mechanics in the Post-Pierce Era"
Stanley Backer
- "Mechanics of Complex Fabric Deformation and Drape"
R. Postle and A.H. Norton
- "Discrete Fiber Versus Continuum Models in Yarn Mechanics"
Garth Carnaby
- "Fundamental Physics of Carpet Performance"
W. M. Baggett, J. P. Yu and J.H. Southern

"On the Translation of Yarn Properties into Woven Fabric Tensile Strength"
M.C. Boyce, M. L. Palmer, M. Seo and P. Schwartz

"The Penetration of Liquids into Fiber Networks"
Bernard Miller

"New Fibers Modified by Electron Beam and Low Pressure Plasma"
Michel Sotton

"Enhanced Wear and Surface Characteristics of Polyol modified Fibers"
T. L. Vigo, J. S. Bruno and W. S. Goynes

"The Mechanical Properties of cotton Fibers"
S. Haig Zeronian

"Engineering Fiber Properties for New Yarn Spinning Systems"
B. C. Goswami

"Evolution of Fabric Preform Architectures for Fiber Composites"
David Brookstein

"Damage Tolerance of 3-D Braided Commingled Peek/Carbon Composites"
Frank K. Ko and Cam T. Hua

"Development of Alginate Fibers and Their use in High Performance Paper Products"
Yoshinari Kobayashi

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