Biology Empa 2015

Stahlbeton- und Spannbetontragwerke unter stossartiger BelastungEnvironmental NanotechnologyRedox and Nitrosative Signaling in Cardiovascular System: from Physiological Response to DiseaseNano and Biotech Based Materials for Energy Building EfficiencyRe-engineering Manufacturing for SustainabilityZement-Kalk-GipsProfiles of Drug Substances, Excipients, and Related MethodologySchweizerische BauzeitungSchweizer Jahrbuch des öffentlichen LebensGas, Wasser, AbwasserSchweizer Ingenieur und ArchitektSchweizerische Zeitschrift für Strassenwesen und verwandte GebieteArchiv für Gewerbepathologie und GewerbehygieneBeiträge zur geologie der SchweizÖsterreichische BauzeitschriftZugversuche an Bewehrungs- und Spannstahl mit erhöhter DehngeschwindigkeitPrirodoslovne razpraveConstructional ReviewBiographisch-literarisches Handwörterbuch der exakten NaturwissenschaftenBibliographia scientiae naturalis Helvetica Ammann Nandita Dasgupta Mariarosaria Santillo F. Pacheco Torgal Andrew Y. C. Nee Schweizerische Geotechnische Kommission AMMANN Johann Ch. Poggendorff

Stahlbeton- und Spannbetontragwerke unter stossartiger Belastung Environmental Nanotechnology Redox and Nitrosative Signaling in Cardiovascular System: from Physiological Response to Disease Nano and Biotech Based Materials for Energy Building Efficiency Re-engineering Manufacturing for Sustainability Zement-Kalk-Gips Profiles of Drug Substances, Excipients, and Related Methodology Schweizerische Bauzeitung Schweizer Jahrbuch des öffentlichen Lebens Gas, Wasser, Abwasser Schweizer Ingenieur und Architekt Schweizerische Zeitschrift für Strassenwesen und verwandte Gebiete Archiv für Gewerbepathologie und Gewerbehygiene Beiträge zur geologie der Schweiz Österreichische Bauzeitschrift Zugversuche an Bewehrungs- und Spannstahl mit erhöhter Dehngeschwindigkeit Prirodoslovne razprave Constructional Review Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften Bibliographia scientiae naturalis Helvetica *Ammann Nandita Dasgupta Mariarosaria Santillo F. Pacheco Torgal Andrew Y. C. Nee Schweizerische Geotechnische Kommission AMMANN Johann Ch. Poggendorff*

das interesse fur stossartige belastungen von tragwerken als sehr kurzzeitige aussere einwirkungen hat in letzter zeit stark zugenommen immer mehr sieht sich der bauingenieur solch ungewohnlichen bean spruchungen gegenuber wie z b stoss von fahrzeugen oder flugzeugen gegen wichtige bauteile explosionen steinschlagprobleme oder sprungbelastungen infolge ausfalls tragender elemente dabei stehen meist die dynamische reaktion des bauteils oder bauwerks und des sen fahigkeit zur plastischen energieabsorption im vordergrund die zunehmende bedeutung solcher fragestellungen war mit ein grund dass im jahr 1977 am institut fur baustatik und konstruktion der eidgenossischen technischen hochschule zurich ein forschungsprojekt be gonnen wurde mit dem ziel die wirkungen stossartiger

belastungen auf stahl beton und spannbetontragwerke besser kennen und erfassen zu konnen dabei wurden neuartige wege eingeschlagen indem als stossenergie die fallenergie des gestossenen elementes selbst verwendet wurde die ergebnisse der experimentellen unter suchungen an material proben an einfachen balken und an durchlauftragern wurden in mehreren berichten und publikationen festgehalten die vorliegende dissertation enthalt im wesentlichen die im rahmen des for schungsprojektes gewonnenen theoretischen erkenntnisse nach einer charakterisierung des materialverhaltens bei erhohten dehngeschwindigkeiten werden analytische modelle fur das dynamische verhalten sowie fur die tragfahigkeit und das verformungsvermogen fallender und einseitig aufprallender stahl und spannbeton balken entwickelt fur die praxis von besonderem interesse sind die an durchlauftragern nach plotzlichem ausfall einer unterstutzung durchgefuhrten untersuchungen hier gelang es einfache und effiziente rechen verfahren mit hilfe plastischer gelenke und starrkorperbewegungen zu entwickeln mit denen sozusagen von hand das komplexe dynamische verhalten zutreffend erfasst werden kann

this book presents the environmental benefits of nanomaterials in agriculture water purification and nanomedicine nanotechnology will modify the environment both in a positive and negative way on the one hand new nanomaterials are promising for reducing greenhouse gases cleaning toxic wastes and building alternative energy sources on the other hand some toxic nanoparticles enter and disrupt ecosystems therefore research should focus on the sustainable use of nanomaterials to avoid environmental contamination this volume is the first of several volumes on environmental nanotechnology which will be published in the series environmental chemistry for a sustainable world

the role of ros rns signaling in cardiovascular functions and diseases is increasingly emerging in the last decades the involvement of ros rns in the control of a large number of cardiovascular functions like the regulation of the vascular tone the control of blood pressure or myocyte excitation contraction coupling and force development has been broadly investigated and in part clarified on the other hand many efforts have been focused in clarifying the redox mechanisms involved in cardiovascular diseases like ischemia reperfusion injury diabetes associated cardiovascular dysfunctions atherosclerosis or hypertension just to mention the major ones however in most cases the two levels of investigation remain separate and not interlaced failing in the attempt to provide a unified vision of the pathophysiologic mechanisms of cardiovascular diseases the major aim of the research topic has been to collect original papers and review articles dealing with the issue from basic to translation research point of views the topic includes contributions that highlight different interesting aspects of cardiovascular biology with an integrated approach useful for the development of new ideas and advancements in the field of redox signaling in the control of normal cardiovascular functions and their disruption in diseases

this book presents the current state of knowledge on nanomaterials and their use in buildings ranging from glazing and vacuum insulation to pcm composites it also discusses recent applications in organic photovoltaics photo bioreactors bioplastics and foams making it an exciting read while also providing copious references to current research and applications for those wanting to pursue possible future research directions derek clements croome emeritus professor in architectural

engineering university of reading from the foreword demonstrating how higher energy efficiency in new and existing buildings can help reduce global greenhouse gas emissions this book details the way in which new technologies manufacturing processes and products can serve to abate emissions from the energy sector and offer a cost effective means of improving competitiveness and drive employment maximizing reader insights into how nano and biotech materials such as aerogel based plasters thermochromic glazings and thermal energy adsorbing glass amongst others can provide high energy efficiency performance in buildings it provides practitioners in the field with an important high tech tool to tackle key challenges and is essential reading for civil engineers architects materials scientists and researchers in the area of the sustainability of the built environment

this edited volume presents the proceedings of the 20th cirp lce conference which cover various areas in life cycle engineering such as life cycle design end of life management manufacturing processes manufacturing systems methods and tools for sustainability social sustainability supply chain management remanufacturing etc

profiles of drug substances excipients and related methodology volume 50 includes comprehensive profiles of four drug compounds sofosbuvir nateglinide linagliptin and dronedarone providing comprehensive knowledge on their physical and chemical properties synthesis and degradation pathways analytical techniques for identification and quantification separation methods and pharmacology of drug substances finally this volume includes a review article related to the applications of cyclodextrins in pharmaceutical and related fields along with a chapter on fenamates degradation this information is highly valuable to professionals in the field but having it all in one place is a great benefit to readers the profiles series encompasses five review articles and database compilations on various topics including the physical profiles analytical profiles adme profiles methodologies related to the characterization and methods of chemical synthesis of drug substances and excipients provides synthesis and pathways of physical or biological degradation of selected drug substances offers a comprehensive review of the biological chemical physical characteristics and pharmacology of certain drug substances describes nearly all analytical methods available in the literature used to identify and quantify drug substances offers applications of certain materials in pharmaceuticals and related fields provides a cumulative index for each volume in the series

vols for include section on the principality of liechtenstein

der vorliegende versuchsbericht ist im rahmen des forschung projektes stahlbeton und spannbetonbalken unter stossartiger beanspruchung ausgearbeitet worden dabei interes sierte u a der einfluss der erhöhten dehngeschwindigkeiten auf die materialkennwerte von bewehrungs und spannstahl und insbesondere auf das gesamte spannungs dehnungs diagramm dieser materialien für naturharten und kaltverformten bewehrungsstahl sowie für patentiert kaltnachgezogene spanndrähte und litzen wurde das verhalten der festig keits und dehnungskennwerte sowie der brucheinschnürung für den dehngeschwindigkeits 5 bereich von e 10 pro sekunde bis ungefähr 5 10 pro sekunde ermittelt rund 240 zug versuche an proben unterschiedlicher marken und durchmesser wurden mit verschiedenen

servohydraulischen prüfmaschinen und mit einer mechanischen fallgewichteinrichtung bei temperaturen von 18 bis 22 oe durchgeführt beim bewehrungsstahl der gruppe iii resultierte für den oben erwähnten dehngeschwindig keitsbereich über etwa fünf zehnerpoterizen eine erhöhung der festigkeitswerte von gut 10 bei den dehnungswerten konnte insbesondere beim kaltverformten stahl eine massive erhöhung der gleichmassdehnung von bis zu 180 festgestellt werden einzig die bruch ainschnürung zeigte eine geringfügige abminderung gegenüber den werten aus dem quasi statischen normzugversuch bei den spanndrähten trat mit zunehmender dehngeschwindigkeit eine nur unwesentliche er höhung der festigkeitswerte ein zudem war eine deutliche versprödungstendenz infolge abnehmender dehnungswerte und der brucheinschnürung festzustellen

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