

I. Thorn
C.O. Au (Eds.)

Applications of Wet-End Paper Chemistry

2nd Edition



Springer

Applications Of Wet End Paper Chemistry

Antje Gonera



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Applications of Wet-End Paper Chemistry Che On Au, I. Thorn, 2013-06-29 Commercial demands and increasing global competition have led to enormous mechanical evolution over recent years Twin wires wide nip presses steam boxes and speed sizars have all played a part in improving both the productivity and quality of paper and board products With the emphasis on mechanical and electrical engineering and the ever increasing pressures of quality measurement and control little time has been available within a technical department for much reflection on the chemistry of the process Thus there is a growing trend for the management of the wet end to be delegated to the chemical supplier The advances in scale of paper manufacture environmental sensitivity and higher quality of end product requirements have all had an impact on the chemistry of the wet end The increased production means for example that down time is more of an anathema now when capacity is critical Similarly with the greater rigours of quality management anything which causes breaks or holes must be

eradicated Environmental pressures too are growing on the papermaking process Even if consideration is restricted to only the closure of the white water circuit it alone throws down a challenge to the potency of biocides retention aids and other chemicals These chemicals are detriment ally affected by an increasing concentration of water soluble pulp extractives and surfactants adhesives and polysaccharides from broke and recycled paper

Advances in Papermaking Wet End Chemistry Application Technologies Martin A. Hubbe, Scott Rosencrance, 2018-01-20

Paper Chemistry J.C. Roberts, 2012-12-06 Although the title of this book is Paper Chemistry it should be considered as a text about the chemistry of the formation of paper from aqueous suspensions of fibre and other additives rather than as a book about the chemistry of the raw material itself It is the subject of what papermakers call wet end chemistry There are many other excellent texts on the chemistry of cellulose and apart from one chapter on the accessibility of cellulose the subject is not addressed here Neither does the book deal with the chemistry of pulp preparation from wood from other plant sources or from recycled fibres for there are also many excellent texts on this subject The first edition of this book was a great success and soon became established as one of the Bibles of the industry Its achievement then was to collect the considerable advances in understanding which had been made in the chemistry of papermaking in previous years and provide for the first time a sound physico chemical basis of the subject This new edition has been thoroughly updated with much new material added The formation of paper is a continuous filtration process in which cellulosic fibres are formed into a network which is then pressed and dried The important chemistry involved in this process is firstly the retention of col loidal material during filtration and secondly the modification of fibre and sheet properties so as to widen the scope for the use of paper and board products

Surface Application of Paper Chemicals J. Brander, I. Thorn, 2012-12-06 With the exception of a slight hiccup during the height of the recent environmental movement during the early 1990s when for a year or two consumers were prepared to pay a price premium for lower quality recycled paper than for the virgin product the inexorable improvement in the quality demanded of paper products continues This demand for quality covers not only the aesthetics of the product but also its performance Moreover it is becoming increasingly the case that papers designed for a particular use must as it were incidentally also perform well in alternative applications An example is that of office and printing papers which are expected to perform as well in copier machines as in all the various forms of impact and non impact printers But even greater demands are made in other product areas where board designed for dry foods can also be expected to protect moist and fatty materials and be made of 100% recycled fibre The need to isolate foodstuffs from some of the contaminants that can affect recycled board is a serious challenge Thus papermakers are constantly striving to meet a broadening spectrum of demands on their products often while accepting declining quality of raw materials The product design philosophy that has arisen in response to this is increasingly to isolate the bulk of a paper from its uses to engineer the needed performance characteristics into the paper surfaces while more or less ignoring what happens inside

Chemistry of Modern

Papermaking Cornel Hagiopol, James W. Johnston, 2011-09-08 Chemistry of Modern Papermaking presents a chemist's perspective on the papermaking process. With roughly 3% of the mass of a paper product invested in water-soluble chemicals, paper makers can adjust the speed and efficiency of the process, minimize and reuse surplus materials, and differentiate a paper product as required by specific customers. W. *Aminofunctional Starch Derivatives: Synthesis, Analysis, and Application* Antje Gönner, 2004 *Polymer Adhesion, Friction, and Lubrication* Hongbo Zeng, 2013-04-01 Specifically dedicated to polymer and biopolymer systems, *Polymer Adhesion, Friction, and Lubrication* guides readers to the scratch, wear, and lubrication properties of polymers and the engineering applications from biomedical research to automotive engineering. Author Hongbo Zeng details different experimental and theoretical methods used to probe static and dynamic properties of polymer materials and biomacromolecular systems. Topics include the use of atomic force microscopy (AFM) to analyze nanotribology, polymer thin films and brushes, nanoparticles, rubber and tire technology, synovial joint lubrication, adhesion in paper products, bioMEMS, and electrorheological fluids.

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perlu diingat ya bahwa cara menghitung kekuatan lantai beton ini hanya sekedar rule of thumb alias gambaran kasarnya saja $1.40 \times l$ adalah lebar bentang misalnya bangunan $4 \times 4 \text{ m}$ maka 1.40×4 0.1 atau 10 cm rumus balok $1.12 \times l$ jadi balok yang mesti dipersiapkan untuk menahan beban adalah 1.12×1 0.33 atau 33 cm terkadang

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sep 13 2019 cara menghitung volume beton terdiri dari 2 cara yaitu cara menghitung volume beton tanpa tulangan dan cara menghitung volume beton bertulang di dalam perhitungan material konstruksi beton tercampur berdasarkan susunan agregat dari yang terhalus sampai ke yang paling kasar dengan campuran material semen pasir dan kerikil

perencanaan gedung bank 6 lantai dengan menggunakan struktur beton - Mar 14 2022

pada balok beton bertulang digunakan dimensi 400x1000 350x700 300x600 250x500 250x400 200x400 dan 150x300

sedangkan untuk tulangan longitudinal menggunakan tulangan diameter d22 d19 d16 d13 dan d10 tulangan transversal menggunakan tulangan diameter Ø10 dan Ø8

perencanaan struktur beton bertulang gedung - Jul 30 2023

perencanaan bangunan gedung bertingkat akan mempertimbangkan efisiensi dan mengacu pada peraturan sni 2847 2019 tentang persyaratan beton struktural untuk bangunan gedung dan sni 1726 2019 yaitu tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan non gedung

perancangan gedung bertingkat 10 lantai dengan beton bertulang mutu - Aug 31 2023

perancangan gedung bertingkat 10 lantai dengan beton bertulang mutu tinggi ida ayu putu eka chandra saraswati nrp 03111740000023 hilda imama rofiq nrp 03111740000060 surabaya desember 2020 menyetujui dosen pembimbing bambang piscesa s t m t ph d nip 198403182008121002 1 mengetahui sekretaris

contoh laporan struktur bangunan gedung bertingkat download gratis - Jun 28 2023

contoh laporan hitungan struktur bangunan gedung bertingkat pada pekerjaan perencanaan suatu bangunan maka akan dilakukan survey lokasi dan pengambilan data situasi pada lokasi tersebut misalnya seperti countur tanah elevasi sondir tanah akses jalan keadaan sekitar