Science from Above

Dr. Katy Börner Information Visualization Laboratory, Director Cyberinfrastructure for Network Science Center, Director

Indiana University, Bloomington, IN

AMSE, January 3rd, 2008

















A Solution: Science Maps



















| The Visual Elen | nents Periodic T | able | | |
|---|---|------|---------|--|
| This chief shows the 111 currently booset and offic BUTWC 2004. Such element is represented abusely The foreign Table is an element of all the | hily surved elements that comprise the Preside Tale by an image produced for the Visual Denemic project | | | |
| The evolution former of an anti-protection of an advance Periodic Table (Fig and the elements, with these and logical partners. There are eighteen writical raison Demonstry and their a group house closely evoluted phys- module of their increasing mass and are called unive- regulamentic may through a period. | terreturns a source or rectange assess parents, terreturns, en or in the table which divide the elements into group cal properties. Neclassial rows list the elements in an approach. Properties of claments change in a | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | Ž₄ ► | |
| | | | | |
| | | | | hard Therecets is an arts and gatesite collectoreting project spectrals for flowed biological Convention states from the replace of effects spectral field replace of the spectral states of an an antiper state provide the spectral state of the spectral and states and provide the spectral states of the spectral spectral states of the spectral states of the spectral spectral states of the spectral states of the spectral spectral states of the spectral spectral states of the spectral spectral states of the spectral states of the spectral spectral spectral spectral spectral spectral states of the spectral spectra |
| | () | | | of the privale balls on the sets at a work (hyperpectary)/sets (known)) • Marray Reference/final Society of Constant 1928-1928 |
| | | | | |















| Synthetic Resins or Natural Rubbe |
|---|
| Process of Regenerating Membrane or Process of Preparing Previously Formed Solid Ion-exchange Polymer Admixed With N Polymer Characterized By Defined Size or Shape Other than Bea Chemically Trastatol Solid Polymer |
| Solid Polymer Derived From Ethylenically Unsaturated Reacta Solid Polymer Derived From At Least One 1,2-epoxy Containir Solid Polymer Derived From Aldehyde or Derivative From Ethylenically Unsaturated Reactant Only From Aldehyde or Derivative |
| Process of Treating Scrap or Waste Product (Process of Treating Scrap or Waste Product Containing At Least Treating Rubber (or Rubberlike Materials) or Polymer Derived Treating Polymer Derived From A Monomer Containing Only (Treating Polymer Derived From Hydrocarbon Monomers Only Treating Polymer Derived From Hydrocarbon Monomers Only |
| Treating Polyester Treating With Alcohol Treating Polyurethane, Polyurea (excluding Urea-formaldehyde Treating With Alcohol or Amine Treating Polycarbonamide |
| Cellular Products or Processes of Preparing / Cellular Product Derived From Two or More Solid Polymers or Fr At Least One Polymer Is Derived From Reactant Containing Tw At Least One Polymer Is Derived From An Aldehyde or Derivat At Least One Polymer Is Derived From An Encrew Reactant Whe |





| | | You may n | | | | |
|--|---|---|---|---|--|--|
| Nanotechnology | | touching a paradigm (| place on the world i on the topic map wil | map will light up topi Il light up the places t | ics studied in that pla hat study that topic. | on the other: ace; touching a |
| Nanotechnology This overlay shows the distribution of nanotechnology within the para- digms of science. The majority of | All Topics | touching a paradigm o | place on the world i on the topic map wil Francis H. C. CRICK | map will light up top Il light up the places t Albert EINSTEIN | cs studied in that pik hat study that topic Michael E. FISHER | on the other: ace: touching a Susan T. FISKE |
| Nanotechnology This overlay shows the distribution of nanotechnology within the para- digms of science. The majority of current work in nanotechnology takes places in physics, chemistry, | All Topics Sweep through all 726 scientific paradigms | touching a paradigm of paradigm of science on the tiny scale of molecules | place on the world 1 on the topic map will Francis H. C. CRICK Co-discovered DNA's double helix | map will light up top top Il light up the places to Albert EINSTEIN Revisited physics with Relativity theories | cs studied in that pl hat study that topic Michael E. FISHER Models critical phase transitions of matter | an the other: ace; touching a Susan T, FISKE Connects perception and stereotypes |
| Nanotechnology This overlay shows the distribution of nanotechnology within the para- digms of science. The majority of current work in nanotechnology takes places in physics, chemistry, and materials science, at the upper right portion of the map. However, | All Topics Sweep through all 726 scientific paradigms Sustainability | touching a paradigment of the second | place on the world 1 on the topic map will Francis H. C. CRICK Co-discovered DNA's double hela Joshua LEDERBERG | Albert EINSTEIN Revitalzed physics with Relativity theories Derek J. de Solla PRICE | A studied in that pla hat study that topic Michael E. FISHER Models critical phase transitions of matter Richard N. ZARE | an the other: ace; touching a Susan T. FISKE Connects perception and stereotypes About this display |
| Nanotechnology This overlay shows the distribution of nanotechnology within the para- digms of science. The majority of current work in nanotechnology takes places in physics, chemistry, and materials science, at the upper right portion of the map. However, m increasing amount of pareteche | All Topics Sweep through all 726 scientific paradigms Sustainability | touching a paradigm of Nanotechnology Science on the tiny scale of molecules Biology & Chemistry | place on the world i on the topic map will Prancis H. C. CRICK Co-discovered DNA's double helia Joshua LEDERBERG | Albert EINSTEIN Revitateed physics with Relativity theories Derek J. de Solla PRICE | A studied in that plant study that topic | Susan T, FISKE Connects percept and stereotypes About this display |



























KIDS first ...



All maps of science are on sale via <u>http://scimaps.org/ordermaps/</u>



























































