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synthesis is the magical part of the design process that allows us to understand data so we can solve problems for businesses and people it relies heavily on abductive reasoning which is based on sense making and can draw on deductive and inductive logic synthesis in human centred design is a collaborative process of sensemaking which leads to creating a coherent summary of all the data gathered during the design research synthesis can be explained in 3 major steps design synthesis is the process of translating research data into actionable knowledge and is a critical part of the design methodology the goal of this process is finding relationships stage 2 in the design thinking process define the problem by synthesising information by rikke friis dam and teo yu siang 3 years ago 9 min read 605 shares an essential part of the design thinking process is the define phase as this is the phase where you will explicitly express the problem that you and your team aim to address this book is an attempt to bring together some of the most influential pieces of research that collectively underpin today's understanding of what constitutes and contributes to design synthesis and the approaches and tools for supporting this important activity the book has three parts synthesis within the scope of design thinking is the transformative process of turning dispersed data and observations into a cohesive insightful narrative this crucial step acts as the conduit from raw information garnered through empathetic research to actionable insights that drive ideation and innovation in design thinking the first phase is the research or empathise phase then you move on to the define phase in which you utilise several available methods to help you crystallise synthesise and summarise your understanding of who you're designing for and what your users really need design synthesis and processing are areas of methodological research in physics chemistry and materials science devoted to modelling and developing novel materials with desired structure design synthesis design is that act of problem solving of appropriating formal qualities into a new design idea that fulfills the stated criteria and adds value to the human condition synthesis is a sensemaking process that helps the designer move from data to information and from information to knowledge design synthesis and processing articles within nature featured article 13 march 2024 open access roll to roll high resolution 3d printing of shape specific particles successful synthesis and design materiomimetic engineering must extend beyond biomimetics and bio inspired systems exploit fundamental mechanisms of self assembly and hierarchies and integrate widely available building blocks such as amyloid proteins and dna open access abstract in this perspective paper we present challenges and opportunities that the chemical biochemical and related industries pose to the process system engineering community to help deliver reliable and novel sustainable alternatives analysis synthesis and design of chemical processes 5th edition the leading integrated chemical process design guide with extensive coverage of equipment design and other key topics more than ever

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