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Marco Pepe

# A Conceptual Model for Designing Recycled Aggregate Concrete for Structural Applications

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# Conceptual Designing Aggregate Structural Applications

**Iowa State University**



## **Conceptual Designing Aggregate Structural Applications:**

### **A Conceptual Model for Designing Recycled Aggregate Concrete for Structural Applications** Marco

Pepe, 2015-12-12 This book reports on the physical and mechanical characterization of Recycled Aggregate Concrete RAC produced through a partial to total replacement of ordinary aggregates with what have been dubbed Recycled Concrete Aggregates RCAs It proposes a theoretical framework for understanding the relationships between RCAs and RAC and for predicting the resulting behavior of RAC The book demonstrates that in the case of RAC two additional parameters have to be taken into account than with ordinary aggregates due to the composite nature and higher porosity of RCAs By extending Abrams Law for Recycled Aggregate Concrete it represents a first step in the formulation of a general model for predicting the properties of RAC The theoretical approach presented here addresses an important gap in the literature and is expected to stimulate new research on the use of this more sustainable form of concrete in structural applications

**Readings in Artificial Intelligence and Databases** John Mylopoulos, Michael L. Brodie, 2014-06-28 The interaction of database and AI technologies is crucial to such applications as data mining active databases and knowledge based expert systems This volume collects the primary readings on the interactions actual and potential between these two fields The editors have chosen articles to balance significant early research and the best and most comprehensive articles from the 1980s An in depth introduction discusses basic research motivations giving a survey of the history concepts and terminology of the interaction Major themes approaches and results open issues and future directions are all discussed including the results of a major survey conducted by the editors of current work in industry and research labs Thirteen sections follow each with a short introduction Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems and the integration of data model concepts in high level data languages definition and maintenance of integrity constraints in databases and knowledge bases natural language front ends object oriented database management systems implementation issues such as concurrency control and error recovery and representation of time and knowledge incompleteness from the viewpoints of databases logic programming and AI

**Data Abstraction, Databases, and Conceptual Modelling** Michael L. Brodie, 1980 *Architectural Engineering: New Concepts, New Methods, New Materials, New Applications* Architectural Record (New York, N.Y.), 1925 **NBS Special Publication**, 1979 Database Design for Structural Analysis Steven Earl Rahmann, 1994 **General Catalogue** Massachusetts Institute of Technology, 1959 *Database and Expert Systems Applications* A Min Tjoa, Roland Wagner, 1990 Use and development of

database and expert systems can be found in all fields of computer science The aim of this book is to present a large spectrum of already implemented or just being developed database and expert systems Contributions cover new requirements concepts for implementations e g languages models storage structures management of meta data system architectures and experiences gained by using traditional databases in as many areas of applications as possible at least in

the fields listed The aim of the book is to inspire a fruitful dialogue between development in practice users of database and expert systems and scientists working in the field *Object-oriented Database Design* Ken S. Brathwaite,1993 This book presents the basic concepts of object oriented database design It discusses several techniques for developing databases and object oriented programming OOP using C and EIFFEL The book also provides a definition for the field of object oriented database design explaining the concept of OOP and surveying the available products *General Catalogue Issue* Massachusetts Institute of Technology,1959 *Information Systems Design Methodologies* T. William Olle,Henk G. Sol,A. A. Verrijn Stuart,1982 **On Conceptual Modelling** M.L. Brodie,J. Mylopoulos,J.W. Schmidt,1984 The growing demand for systems of ever increasing complexity and precision has stimulated the need for higher level concepts tools and techniques in every area of Computer Science Some of these areas in particular Artificial Intelligence Databases and Programming Languages are attempting to meet this demand by defining a new more abstract level of system description We call this new level conceptual in recognition of its basic conceptual nature In Artificial Intelligence the problem of designing an expert system is seen primarily as a problem of building a knowledge base that represents knowledge about an enterprise Consequently Knowledge Representation is viewed as a central issue in Artificial Intelligence research Database design methodologies developed during the last five years are almost unanimous in offering semantic data models in terms of which the designer directly and naturally models an enterprise before proceeding to a detailed logical and physical database design In Programming Languages different forms of abstraction which allow implementation independent specifications of data functions and control have been a major research theme for a decade To emphasize the common goals of these three research efforts we call this new activity conceptual modelling **Aeronautical Engineering** ,1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Very Large Data Bases* ,1981 *Mechanistic Design Concepts for Stabilized Base Pavements* Marshall R. Thompson,1986 Concepts for a mechanistic based thickness design procedure for high strength stabilized base pavements are presented The proposed procedure is based on stabilized layer fatigue consumption and a ILLI PAVE based algorithm for estimating stabilized layer flexural stress The design concept can easily be developed into a comprehensive practical thickness design procedure for Illinois DOT utilization Appendix A is a State of the Art summary entitled The Selection of Stress Strain Strength and Fatigue Relationships for use in Mechanistic Design Procedures Appendix B is an ILLI PAVE Data Base for Stabilized Base Pavements *Undergraduate and Graduate Courses and Programs* Iowa State University,2009 **The Cement Age; a Magazine Devoted to the Uses of Cement** ,1911 **Courses and Programs** Iowa State University,1997 *Methodologies, Techniques, and Tools for Design Development* Murat Tanik,Atila Ertas,I. I. Esat,1994 *Progress in Concrete Technology* Canada Centre for Mineral and Energy Technology,1980

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