

# **Coarse**

**Bill M. Stewart, Lynn A. Atkins**

## **An Invitation to Coarse Groups** Arielle

Leitner, Federico Vigolo, 2024-01-13 This book lays the foundation for a theory of coarse groups: namely, sets with operations that satisfy the group axioms “up to uniformly bounded error”. These structures are the group objects in the category of coarse spaces, and arise naturally as approximate subgroups, or as coarse kernels. The first aim is to provide a standard entry-level introduction to coarse groups. Extra care has been taken to give a detailed, self-contained and accessible account of the theory. The second aim is to quickly bring the reader to the forefront of research. This is easily accomplished, as the subject is still young, and even basic questions remain unanswered. Reflecting its dual purpose, the book is divided into two parts. The first part covers the fundamentals of coarse groups and their actions. Here the theory of coarse homomorphisms, quotients and subgroups is developed, with proofs of coarse versions of the isomorphism theorems, and it is shown how coarse actions are related to fundamental aspects of geometric group theory. The second part, which is less self-contained, is an invitation to further research, where each thread leads to open questions of varying depth and difficulty. Among other topics, it explores coarse group structures on set-groups, groups of coarse automorphisms and spaces of controlled maps. The main focus is on connections between the theory of coarse groups and classical subjects, including: number theory; the study of bi-invariant metrics on groups; quasimorphisms and stable commutator length; groups of outer automorphisms; and topological groups and their actions. The book will primarily be of interest to researchers and graduate students in geometric group theory, topology, category theory and functional analysis, but some parts will

also be accessible to advanced undergraduates.

**Lectures on Coarse Geometry** John Roe, 2003 Coarse geometry is the study of spaces (particularly metric spaces) from a 'large scale' point of view, so that two spaces that look the same from a great distance are actually equivalent. This book provides a general perspective on coarse structures. It discusses results on asymptotic dimension and uniform embeddings into Hilbert space.

**Generic Coarse Geometry of Leaves** Jesús A. Álvarez López, Alberto Candel, 2018-07-28 This book provides a detailed introduction to the coarse quasi-isometry of leaves of a foliated space and describes the cases where the generic leaves have the same quasi-isometric invariants. Every leaf of a compact foliated space has an induced coarse quasi-isometry type, represented by the coarse metric defined by the length of plaque chains given by any finite foliated atlas. When there are dense leaves either all dense leaves without holonomy are uniformly coarsely quasi-isometric to each other, or else every leaf is coarsely quasi-isometric to just meagerly many other leaves. Moreover, if all leaves are dense, the first alternative is characterized by a condition on the leaves called coarse quasi-symmetry. Similar results are proved for more specific coarse invariants, like growth type, asymptotic dimension, and amenability. The Higson corona of the leaves is also studied. All the results are richly illustrated with examples. The book is primarily aimed at researchers on foliated spaces. More generally, specialists in geometric analysis, topological dynamics, or metric geometry may also benefit from it.

Homotopy Theory with Bornological Coarse Spaces  
Ulrich Bunke, Alexander Engel, 2020-09-03 Providing a new approach to assembly maps, this book develops the foundations of coarse homotopy using the language of

infinity categories. It introduces the category of bornological coarse spaces and the notion of a coarse homology theory, and further constructs the universal coarse homology theory. Hybrid structures are introduced as a tool to connect large-scale with small-scale geometry, and are then employed to describe the coarse motives of bornological coarse spaces of finite asymptotic dimension. The remainder of the book is devoted to the construction of examples of coarse homology theories, including an account of the coarsification of locally finite homology theories and of coarse K-theory. Thereby it develops background material about locally finite homology theories and  $C^*$ -categories. The book is intended for advanced graduate students and researchers who want to learn about the homotopy-theoretical aspects of large scale geometry via the theory of infinity categories.

**Laboratory Compaction Tests of Coarse-graded Paving and Embankment Materials** Robert C. Mainfort, Warren L. Lawton, 1952

**Index Theory, Coarse Geometry, and Topology of Manifolds** John Roe, 1996 Lecture notes from the conference held Aug. 1995 in Boulder, Colo.

**Coarse Cohomology and Index Theory on Complete Riemannian Manifolds** John Roe, 1993

"Coarse geometry" is the study of metric spaces from the asymptotic point of view: two metric spaces (such as the integers and the real numbers) which "look the same from a great distance" are considered to be equivalent. This book develops a cohomology theory appropriate to coarse geometry. The theory is then used to construct "higher indices" for elliptic operators on noncompact complete Riemannian manifolds. Such an elliptic operator has an index in the  $K$ -theory of a certain operator algebra naturally associated to the coarse structure, and this  $K$ -

theory then pairs with the coarse cohomology. The higher indices can be calculated in topological terms thanks to the work of Connes and Moscovici. They can also be interpreted in terms of the  $K$ -homology of an ideal boundary naturally associated to the coarse structure. Applications to geometry are given, and the book concludes with a discussion of the coarse analog of the Novikov conjecture.

**Coarse Geometry of Topological Groups** Christian Rosenthal, 2021-12-16 Provides a general framework for doing geometric group theory for non-locally-compact topological groups arising in mathematical practice.

Engineering Properties of Combined Coarse and Fine Coal Wastes Bill M. Stewart, Lynn A. Atkins, 1981

**Coarse-Grained Modeling of Biomolecules** Garegin A. Papoian, 2017-10-30 The chapters in this book survey the progress in simulating biomolecular dynamics.... The images conjured up by this work are not yet universally loved, but are beginning to bring new insights into the study of biological structure and function. The future will decide whether this scientific movement can bring forth its Picasso or Modigliani. –from the Foreword by Peter G. Wolynes, Bullard-Welch Foundation Professor of Science, Rice University This book highlights the state-of-art in coarse-grained modeling of biomolecules, covering both fundamentals as well as various cutting edge applications. Coarse-graining of biomolecules is an area of rapid advances, with numerous new force fields having appeared recently and significant progress made in developing a systematic theory of coarse-graining. The contents start with first fundamental principles based on physics, then survey specific state-of-art coarse-grained force fields of proteins and nucleic acids, and provide examples of exciting biological problems that are at large scale, and hence, only amenable to coarse-grained modeling.

Introduces coarse-grained models of proteins and nucleic acids. Showcases applications such as genome packaging in nuclei and understanding ribosome dynamics Gives the physical foundations of coarse-graining Demonstrates use of models for large-scale assemblies in modern studies  
Garegin A. Papoian is the first Monroe Martin Associate Professor with appointments in the Department of Chemistry and Biochemistry and the Institute for Physical Science and Technology at the University of Maryland.

**Coarse-to-Fine Natural Language Processing** Slav Petrov, 2011-11-03 The impact of computer systems that can understand natural language will be tremendous. To develop this capability we need to be able to automatically and efficiently analyze large amounts of text. Manually devised rules are not sufficient to provide coverage to handle the complex structure of natural language, necessitating systems that can automatically learn from examples. To handle the flexibility of natural language, it has become standard practice to use statistical models, which assign probabilities for example to the different meanings of a word or the plausibility of grammatical constructions. This book develops a general coarse-to-fine framework for learning and inference in large statistical models for natural language processing. Coarse-to-fine approaches exploit a sequence of models which introduce complexity gradually. At the top of the sequence is a trivial model in which learning and inference are both cheap. Each subsequent model refines the previous one, until a final, full-complexity model is reached. Applications of this framework to syntactic parsing, speech recognition and machine translation are presented, demonstrating the effectiveness of the approach in terms of accuracy and speed. The book is intended for students and researchers interested in statistical approaches to Natural Language

Processing. Slav's work Coarse-to-Fine Natural Language Processing represents a major advance in the area of syntactic parsing, and a great advertisement for the superiority of the machine-learning approach. Eugene Charniak (Brown University)

**Effects on Concrete Quality of Fluctuations, Within Specification Limits, in Coarse Aggregate Grading** William O. Tynes,1966

**Coarse Graining in Quantum Gravity: Bridging the Gap between Microscopic Models and Spacetime-Physics** Astrid Eichhorn,Benjamin Bahr,Antonio D. Pereira,2021-07-15

*Coarse-Grained Deltas* Albina Colella,David Prior,2009-03-30 This Special Publication contains most of the contributions presented at the 1st International Workshop on Fan Deltas (1988) but also contains additional papers which make this particular volume a very well-rounded reference source for the advanced undergraduate/graduate student and the professional earth scientist concerned with sedimentology and petroleum geology. The papers describe the sedimentology and tectonic setting of this important depositional environment. Course-grained deltas, ranging from sand to gravelly, are fully covered and the main focus is on steep-face systems whose steep subaqueous slopes are dominated by high-energy processes. The volume includes case histories from around the world and throughout the book there is emphasis on the subaqueous realm of the delta face, its sedimentary processes and facies associations

**Compaction of Coarse-Grained Sediments, I** G.V. Chilingarian,K.H. Wolf,1975-01-01 Compaction of Coarse-Grained Sediments, I

*Permanent Suspension of Duties on Coarse Wools* United States. Congress. House. Committee on Ways and

Means,1960 Considers H.R. 9322, to suspend permanently duties on coarse wools for the manufacture of carpets.

### **Physical Property Data on Coarse Anthracite**

**Waste** Bill M. Stewart,Lynn A. Atkins,1983

### Flume Experiments on the Transport of a Coarse Sand

Garnett P. Williams,1967

Coarse-Graining of Condensed Phase and Biomolecular Systems Gregory A. Voth,2008-09-22 Exploring recent developments in the field, Coarse-Graining of Condensed Phase and Biomolecular Systems examines systematic ways of constructing coarse-grained representations for complex systems. It explains how this approach can be used in the simulation and modeling of condensed phase and biomolecular systems. Each chapter focuses on specific examples of evolving coarse-graining methodologies and presents results for a variety of complex systems. The contributors carefully detail their own coarse-graining approach, exploring its motivation, strengths, weaknesses, and important application examples. They discuss two of the most successful coarse-graining schemes for soft matter: inverse and multiscale coarse-graining. The book also describes current coarse-grained model development for peptides and proteins at the amino acid level and larger length scales. Assembling the work of some of the most influential, world-renowned researchers in the field, this book provides a unified, in-depth overview of all the coarse-grained schemes developed for condensed phase and biomolecular systems. It shows the promise of coarse-graining as a revolutionary advancement in the scientific community.

Model Reduction and Coarse-Graining Approaches for Multiscale Phenomena Alexander N. Gorban,Nikolas

Kazantzis,I. G. Kevrekidis,Hans Christian

Öttinger,Konstantinos Theodoropoulos,2006-09-22 Model

reduction and coarse-graining are important in many areas of science and engineering. How does a system with many degrees of freedom become one with fewer? How can a reversible micro-description be adapted to the dissipative macroscopic model? These crucial questions, as well as many other related problems, are discussed in this book. All contributions are by experts whose specialities span a wide range of fields within science and engineering.

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