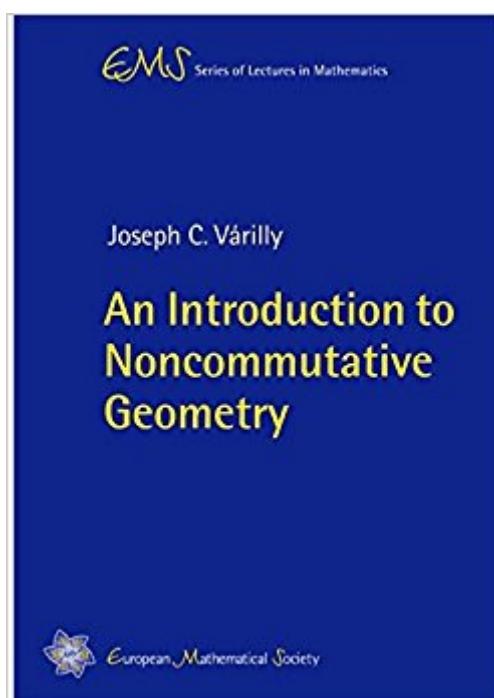


The book was found

# An Introduction To Noncommutative Geometry (EMS Series Of Lectures In Mathematics)



## Synopsis

Noncommutative geometry, inspired by quantum physics, describes singular spaces by their noncommutative coordinate algebras and metric structures by Dirac-like operators. Such metric geometries are described mathematically by Connes' theory of spectral triples. These lectures, delivered at an EMS Summer School on noncommutative geometry and its applications, provide an overview of spectral triples based on examples. This introduction is aimed at graduate students of both mathematics and theoretical physics. It deals with Dirac operators on spin manifolds, noncommutative tori, Moyal quantization and tangent groupoids, action functionals, and isospectral deformations. The structural framework is the concept of a noncommutative spin geometry; the conditions on spectral triples which determine this concept are developed in detail. The emphasis throughout is on gaining understanding by computing the details of specific examples. The book provides a middle ground between a comprehensive text and a narrowly focused research monograph. It is intended for self-study, enabling the reader to gain access to the essentials of noncommutative geometry. New features since the original course are an expanded bibliography and a survey of more recent examples and applications of spectral triples. A publication of the European Mathematical Society (EMS). Distributed within the Americas by the American Mathematical Society.

## Book Information

Paperback: 121 pages

Publisher: European Mathematical Society (June 15, 2006)

Language: English

ISBN-10: 3037190248

ISBN-13: 978-3037190241

Product Dimensions: 0.2 x 6.5 x 9.2 inches

Shipping Weight: 8.8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #758,007 in Books (See Top 100 in Books) #94 in [Books > Science & Math > Mathematics > Geometry & Topology > Differential Geometry](#) #129 in [Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry](#) #452 in [Books > Textbooks > Science & Mathematics > Mathematics > Geometry](#)

[Download to continue reading...](#)

An Introduction to Noncommutative Geometry (EMS Series of Lectures in Mathematics) Ems

Medical Directors' Handbook: National Association of Ems Physicians Noncommutative Geometry  
Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics I: Fractals in Pure  
Mathematics (Contemporary Mathematics) Lectures on Formal and Rigid Geometry (Lecture Notes  
in Mathematics) Lectures on Discrete Geometry (Graduate Texts in Mathematics) Modern  
Geometry – Methods and Applications: Part I: The Geometry of Surfaces, Transformation  
Groups, and Fields (Graduate Texts in Mathematics) (Pt. 1) Taxicab Geometry: An Adventure in  
Non-Euclidean Geometry (Dover Books on Mathematics) Lectures on Antitrust Economics (Cairli  
Lectures) Galois Theory: Lectures Delivered at the University of Notre Dame by Emil Artin (Notre  
Dame Mathematical Lectures, Number 2) The Feynman Lectures on Physics, Vol. II: The New  
Millennium Edition: Mainly Electromagnetism and Matter: Volume 2 (Feynman Lectures on Physics  
(Paperback)) The Feynman Lectures on Physics, Vol. II: The New Millennium Edition: Mainly  
Electromagnetism and Matter (Feynman Lectures on Physics (Paperback)) (Volume 2) Feynman  
Lectures Simplified 4A: Math for Physicists (Everyone's Guide to the Feynman Lectures on  
Physics Book 12) The Feynman Lectures on Physics, Vol. III: The New Millennium Edition:  
Quantum Mechanics: Volume 3 (Feynman Lectures on Physics (Paperback)) The Birth of  
Biopolitics: Lectures at the Collège de France, 1978--1979 (Lectures at the College de France)  
McDougal Littell CLE International: Lectures CLE faciles Level 2 Michel Strogoff (Lectures Cle En  
Francais Facile: Niveau 1) EMS Field Guide, ALS Version EMS Field Guide, BLS Version EMS And  
The Law EVOS: EMS Vehicle Operator Safety: Includes eBook with Interactive Tools

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)