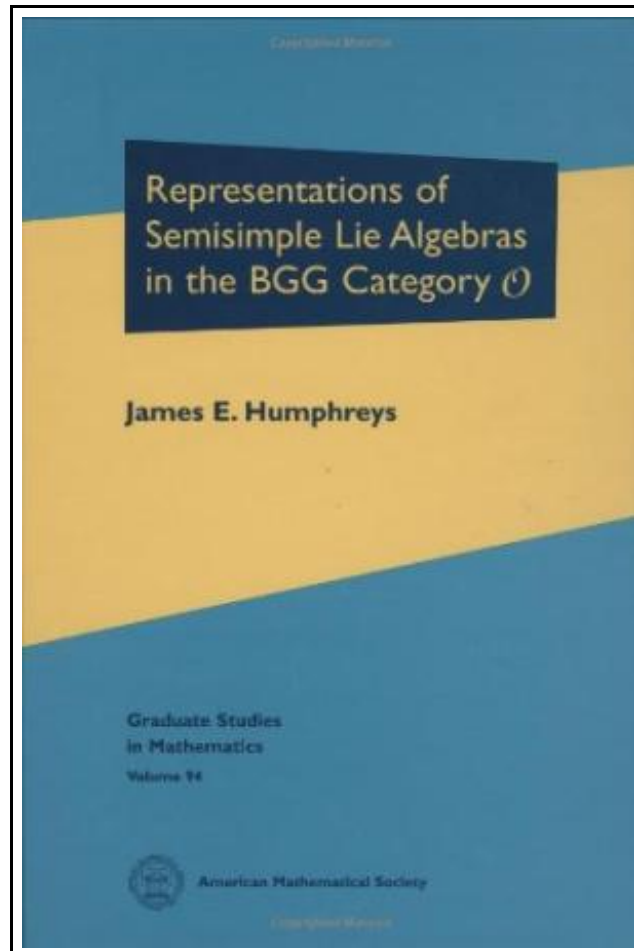# Representations of Semisimple Lie Algebras in the BGG Category O (Hardback)

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American Mathematical Society, United States, 2008. Hardback. Book Condition: New. 262 x 185 mm. Language: English . Brand New Book. This is the first textbook treatment of work leading to the landmark 1979 Kazhdan-Lusztig Conjecture on characters of simple highest weight modules for a semisimple Lie algebra $ mathfrak$ over $ mathbb $. The setting is the module category $ mathscr $ introduced by Bernstein-Gelfand-Gelfand, which includes all highest weight modules for $ mathfrak$ such as Verma modules and finite dimensional simple modules. Analogues of this category have become influential in many areas of representation theory. Part I can be used as a text for independent study or for a mid-level one semester graduate course; it includes exercises and examples. The main prerequisite is familiarity with the structure theory of $ mathfrak$. Basic techniques in category $ mathscr $ such as BGG Reciprocity and Jantzen s translation functors are developed, culminating in an overview of the proof of the Kazhdan-Lusztig Conjecture (due to Beilinson-Bernstein and Brylinski-Kashiwara). The full proof however is beyond the scope of this book, requiring deep geometric methods: D-modules and perverse sheaves on the flag variety.Part II introduces closely related topics important in current research: parabolic category $ mathscr $, projective functors, tilting modules, twisting and completion functors, and Koszul duality theorem of Beilinson-Ginzburg-Soergel.

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