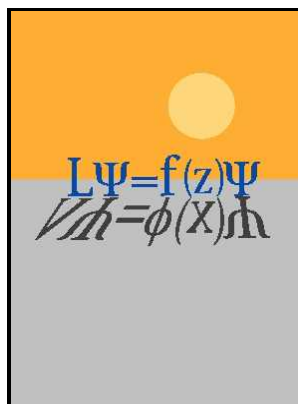


Bispectral problem

American Mathematical Society - Bispectral index monitoring basics



Description: -

-

Indians -- Legal status, laws, etc.

Indians, Treatment of -- Latin America.

Orthogonal polynomials -- Congresses.

Differential operators -- Congresses.

Eigenvalues. bispectral problem

-

no. 16.

Occasional papers (University of Utah. American West Center) ;

Occasional papers / American West Center ; no. 16

Western civilization and native peoples

v. 14

CRM proceedings & lecture notes, bispectral problem

Notes: Includes bibliographical references and index.

This edition was published in 1998



Filesize: 48.43 MB

Tags: #Some #Noncommutative #Matrix #Algebras #Arising #in #the #Bispectral #Problem

Monitoring Consciousness: Using BIS™ during Anesthesia

When 55 to 63% of N₂O was added to anesthesia with propofol and remifentanyl it did not change BIS, but it prevented movements during laryngoscopy and tracheal intubation 17. The bispectral index BIS is one of several systems used in anesthesiology as of 2003 to measure the effects of specific anesthetic drugs on the brain and to track changes in the patient's level of sedation or hypnosis. Selection of Agent for Use With SEPs All volatile agents depress evoked potentials.

Monitoring Consciousness: Using BIS™ during Anesthesia

Pulse oximeters emit light at 660 nm red and 940 nm infrared. Those results demonstrated clearly that the hypnotic effects of propofol are increased by opioids, but monitoring with BIS does not show this effect, which can lead to inadvertent anesthetic overdose.

Bispectral index

According to company information, the bispectral index is used in about 26% of all hospital operating rooms in the United States as of late 2002. Different electrical devices, besides the electric scalpel, can affect BIS monitoring. One Australian medical journal reports that postoperative recall of operations, including the patient's overhearing conversations among members of the as well as feeling helpless and experiencing physical pain, occurs in one of every 1,000 patients undergoing non-cardiac surgery and three of every 1,000 cardiac patients.

Bispectral Index

Pilge S, Zanner R, Schneider G et al. The BIS system displays both raw data from the EEG and a single number between 100 indicating an awake patient and 0 indicating the absence of brain activity that represents the patient's degree of sedation.

Time-band limiting and the bispectral problem, Communications on Pure & Applied Mathematics

One attempt is known as spectral edge frequency, or SEF.

The Bispectral Problem: An Overview

The Finometer uses photoplethysmographic methods — a finger cuff is inflated to the point of maximal changes in light intensity, which occurs when transmural pressure is zero i.

Spectral and bispectral problems in quantum integrable systems

References Following is a list of some, but not all articles on bispectrality.

Related Books

- [Fragments et figures - Serge Fauchier ...\[et al.\]](#).
- [Reading 1 Corinthians in the twenty-first century](#)
- [Posthumous papers of the Pickwick Club.](#)
- [Tales told again](#)
- [Congenital malformations in laboratory and farm animals](#)