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DINGER EQUATION AND FINDS THE INVERSE PROBLEM IS SOLVED BY THE METHOD OF BORN APPROXIMATION AND THE COMPUTATION OF THE BORN APPROXIMATION IS CARRIED OUT USING REGULARIZATION METHODS A BROAD OVERVIEW OF MATHEMATICAL AND COMPUTATIONAL METHODS FOR INVERSE PROBLEMS WITH APPLICATIONS IN DATA AND PHYSICAL SCIENCES THE COURSE ASSUMES SOME AFFINITY WITH UNDERGRADUATE MATHEMATICS BUT IS OTHERWISE SUITED TO GRADUATE STUDENTS FROM ALL DEPARTMENTS DESCRIPTION CHAPTERS REVIEWS SUPPLEMENTARY INVERSE PROBLEMS ARISE IN PRACTICAL APPLICATIONS WHENEVER ONE NEEDS TO DEDUCE UNKNOWNS FROM OBSERVABLES THIS MONOGRAPH IS A VALUABLE CONTRIBUTION TO THE HIGHLY TOPICAL FIELD OF COMPUTATIONAL INVERSE PROBLEMS INVERSE PROBLEMS ARE UBIQUITOUS IN SCIENCE AND ENGINEERING AND HAVE RIGHTFULLY RECEIVED A GREAT DEAL OF ATTENTION BY APPLIED MATHEMATICIANS STATISTICIANS AND ENGINEERS SINCE MOST INVERSE PROBLEMS CANNOT BE SOLVED ANALYTICALLY COMPUTATIONAL METHODS PLAY A FUNDAMENTAL ROLE INVERSE PROBLEM APPROACHES OFTEN CALLED INVERSE MODELING IN ENGINEERING HAVE BECOME A KEY TECHNIQUE TO RECOVER QUANTITATIVE INFORMATION IN MANY BRANCHES OF SCIENCE PROMINENT EXAMPLES INCLUDE MEDICAL IMAGE RECONSTRUCTION NONDESTRUCTIVE MATERIAL TESTING SEISMIC IMAGING AND REMOTE SENSING THE ARTICLE DISCUSSES THE DISCRETIZATION OF LINEAR INVERSE PROBLEMS WHEN AN INVERSE PROBLEM IS FORMULATED IN TERMS OF INFINITE DIMENSIONAL FUNCTION SPACES AND THEN DISCRETIZED FOR COMPUTATIONAL PURPOSES A DISCRETIZATION ERROR APPEARS OVERVIEW EDITORS YANFEI WANG CHANGCHUN YANG ANATOLY & YAGOLA FIRST BOOK RELATING THE INVERSION THEORY AND RECENT DEVELOPMENTS WITH REAL APPLICATIONS COMBINES OPTIMIZATION AND REGULARIZATION FOR SOLVING INVERSE PROBLEMS COVERS FRONTIERS ON MULTI DISCIPLINARY SUBJECTS AREAS 32k ACCESSES DESCRIPTION COMPANION WEBSITE LINK INVERSE PROBLEMS ARISE IN A NUMBER OF IMPORTANT PRACTICAL APPLICATIONS RANGING FROM BIOMEDICAL IMAGING TO SEISMIC PROSPECTING THIS BOOK PROVIDES THE READER WITH A BASIC UNDERSTANDING OF BOTH THE UNDERLYING MATHEMATICS AND THE COMPUTATIONAL METHODS USED TO SOLVE INVERSE PROBLEMS BIBTEX TOOLS ABSTRACT PRACTICAL INVERSE PROBLEMS INVOLVE MEASURED DATA WHICH IS INEXACT STATISTICAL MODELS PROVIDE A RIGOROUS EFFECTIVE MEANS WITH WHICH TO DEAL WITH MEASUREMENT ERROR IN ADDITION STATISTICAL ESTIMATION TECHNIQUES CAN PROVIDE USEFUL TOOLS AND INSIGHT INTO REGULARIZATION INVERSE PROBLEMS ARISE FROM THE NEED TO GAIN INFORMATION ABOUT AN UNKNOWN OBJECT OF INTER EST FROM GIVEN INDIRECT MEASUREMENTS INVERSE PROBLEMS HAVE SEVERAL APPLICATIONS VARYING FROM MEDICAL IMAGING AND INDUSTRIAL PROCESS MONITORING TO OZONE LAYER TOMOGRAPHY AND MODELLING OF NANCIAL MARKETS THE COMMON FEATURE FOR INVERSE PROBLEMS IS THE NEED TO THE IMPERATIVE OF PHYSICS BASED MODELING AND INVERSE THEORY IN COMPUTATIONAL SCIENCE KAREN E WILLCOX OMAR GHATTAS PATRICK HEIMBACH NATURE COMPUTATIONAL SCIENCE 1 166 168 2021 CITE OPEN ACCESS ABSTRACT IN THIS WORK THE POTENTIAL OF CARRYING OUT INVERSE PROBLEMS WITH LINEAR AND NON LINEAR BEHAVIOUR IS INVESTIGATED USING DEEP LEARNING METHODS IN INVERSE PROBLEMS THE BOUNDARY CONDITIONS ARE DETERMINED USING SPARSE MEASUREMENT OF A VARIABLE SUCH AS VELOCITY OR TEMPERATURE TLDR THIS WORK DISCUSSES A SAMPLING IMPORTANCE RESAMPLING ALGORITHM FOR BAYESIAN INFERENCE IN INVERSE PROBLEMS THAT WORKS IN CONJUNCTION WITH KERNEL DENSITY ESTIMATION TO RESAMPLE FROM THE ORIGINAL COMPUTER OUTPUT AN APPROXIMATE POSTERIOR SAMPLE FOR THE UNOBSERVABLE VARIABLES OF INTEREST EXPAND 5 STATISTICAL AND COMPUTATIONAL INVERSE PROBLEMS THE BOOK DEVELOPS THE STATISTICAL APPROACH TO INVERSE PROBLEMS WITH AN EMPHASIS ON MODELING AND COMPUTATIONS THE FRAMEWORK IS THE BAYESIAN PARADIGM WHERE ALL VARIABLES ARE MODELED AS RANDOM VARIABLES THE RANDOMNESS REFLECTING THE DEGREE OF BELIEF OF THEIR VALUES AND THE SOLUTION OF THE 2006 STATISTICAL AND COMPUTATIONAL INVERSE PROBLEMS TECHNOMETRICS VOL 48 NO 1 PP 146 146 SPRINGER PUBLICATION DATE 2005 NUMBER OF PAGES 335 FORMAT HARDCOVER SERIES APPLIED 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