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Flexibility And Constraint In Behavioral Systems

Fumihiko Kimura



Flexibility And Constraint In Behavioral Systems:

Flexibility and Constraint in Behavioral Systems R. J. Greenspan, C. P. Kyriacou, 1994 Animal behaviors are among the most diverse and complex products of evolution They represent a major source of variation both within and between populations As with all aspects of evolution there are boundaries that determine the freedom of behavioral characteristics to vary To understand the causes and consequences of such variation it is essential to define these boundaries Defining them in turn requires that we understand the biological substrates of behavior and how they are subject to variation In this unique volume 58 international experts attempt to analyze and discuss the elements of behavior at many different levels and from many different disciplines By focusing on the flexible and constrained aspects of behavior they have been able to look for common themes in the biological strategies for organizing and producing behavior that exist at molecular physiological and evolutionary levels They discuss the role of development and circuit modulation as well as the versatile roles of individual genes and individual cells in them Throughout they have taken an integrative look at a subject that demands this kind of approach This volume should be of interest to behaviorists neuroscientists behavioral ecologists and psychologists Goal of this Dahlem Workshop to examine the factors contributing to flexibility and constraint in behavior molecular genetic physiological evolutionary and to explore their contribution to a deeper understanding of the interplay between behavior and evolution

Representation and Behavior Fred Keijzer, 2001-02-12 Keijzer provides a reconstruction of cognitive science's implicit representational explanation of behavior which he calls Agent Theory AT the use of mind as a subpersonal mechanism of behavior Representation is a fundamental concept within cognitive science Most often representations are interpreted as mental representations theoretical entities that are the bearers of meaning and the source of intentionality This approach views representation as the internal reflection of external circumstances that is as the end station of sensory processes that translate the environmental state of affairs into a set of mental representations Fred Keijzer stresses however that representations are also the starting point for a set of processes that lead back to the external environment They are used as theoretical components within an explanation of a person's outwardly visible behavior In this book Keijzer investigates the usefulness of representation for behavioral explanation irrespective of mental issues Viewing representation solely in terms of its contribution to explaining behavior allows him to build a serious case for a nonrepresentational approach and to evaluate representation's role in cognitive science Keijzer provides a reconstruction of cognitive science's implicit representational explanation of behavior which he calls Agent Theory AT AT is the use of mind as a subpersonal mechanism of behavior He proposes an alternative to AT called Behavioral Systems Theory BST which explains behavior as the result of interactions between an organism and its environment Keijzer compares BST to related work in the biology of cognition in the building of animal-like robots and in dynamical systems theory Most important he extends BST to the difficult issue of anticipatory behavior through an analogy between behavior and morphogenesis the process by which a multicellular

body develops *Genetic Influences on Neural and Behavioral Functions* Donald W. Pfaff, Wade H. Berrettini, Tong H. Joh, Stephen C. Maxson, 1999-07-27 Utilizing the flood of information derived from the Human Genome Project and corresponding efforts to elucidate the mouse genome *Genetic Influences on Neural and Behavioral Functions* provides a scholarly catalog organized logically of relations between the expression of specific genes nerve cell biology and behavior normal and abnormal in animals AND humans Sample topics include genes in relation to schizophrenia panic disorder epilepsy alcoholism sleep eating disorders and more

Invertebrate Learning and Memory Randolph Menzel, Paul Benjamin, 2013-06-18 Understanding how memories are induced and maintained is one of the major outstanding questions in modern neuroscience This is difficult to address in the mammalian brain due to its enormous complexity and invertebrates offer major advantages for learning and memory studies because of their relative simplicity Many important discoveries made in invertebrates have been found to be generally applicable to higher organisms and the overarching theme of the proposed will be to integrate information from different levels of neural organization to help generate a complete account of learning and memory Edited by two leaders in the field *Invertebrate Learning and Memory* will offer a current and comprehensive review with chapters authored by experts in each topic The volume will take a multidisciplinary approach exploring behavioral cellular genetic molecular and computational investigations of memory Coverage will include comparative cognition at the behavioral and mechanistic level developments in concepts and methodologies that will underlie future advancements and mechanistic examples from the most important vertebrate systems nematodes molluscs and insects Neuroscience researchers and graduate students with an interest in the neural control of cognitive behavior will benefit as will as will those in the field of invertebrate learning Presents an overview of invertebrate studies at the molecular cellular neural levels and correlates findings to mammalian behavioral investigations Linking multidisciplinary approaches allows for full understanding of how molecular changes in neurons and circuits underpin behavioral plasticity Edited work with chapters authored by leaders in the field around the globe the broadest most expert coverage available Comprehensive coverage synthesizes widely dispersed research serving as one stop shopping for comparative learning and memory researchers

Prefrontal Cortex Satoru Otani, 2007-05-08 This volume *Prefrontal Cortex* from *Synaptic Plasticity to Cognition* is an interdisciplinary approach to characterize the function of the anterior portion of the frontal lobe in rodents and human and non human primates The specific topics discussed in the chapters of this volume are purposefully diverse they range from membrane properties of prefrontal neurons to cognitive psychology Nevertheless this volume must not be regarded as a mere collection of writings with the different sub themes As you will see chapters often vigorously encompass domains of the prefrontal field in effort to provide a big picture That is actually what we attempted to do in this volume On one hand we have accumulated knowledge on the properties of neurons and synapses in the prefrontal cortex as well as the actions of critical neuromodulators such as dopamine On the other hand behavioral and cognitive neurosciences have begun

to reveal the fascinating role of the prefrontal cortex in such mental processes as working memory attention switching and rule following and long term memory Needless to say our ultimate goal as neurobiologists is to know what relationship there is between these cellular and cognitive processes This volume is meant to serve as a comprehensive introduction towards that goal Readers will be informed for example of how plasticity of prefrontal neurons is regulated how it is involved in certain cognitive processes in rodents and how the rodent models can apply to the primates

Emergent Behavior in Complex Systems Engineering Saurabh Mittal, Saikou Diallo, Andreas Tolk, 2018-04-03 A comprehensive text that reviews the methods and technologies that explore emergent behavior in complex systems engineering in multidisciplinary fields In *Emergent Behavior in Complex Systems Engineering* the authors present the theoretical considerations and the tools required to enable the study of emergent behaviors in manmade systems Information Technology is key to today's modern world Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure Modeling and simulation along with Big Data technologies are at the forefront of such exploration and investigation The text offers a number of simulation based methods technologies and approaches that are designed to encourage the reader to incorporate simulation technologies to further their understanding of emergent behavior in complex systems The authors present a resource for those designing developing managing operating and maintaining systems including system of systems The guide is designed to help better detect analyse understand and manage the emergent behaviour inherent in complex systems engineering in order to reap the benefits of innovations and avoid the dangers of unforeseen consequences This vital resource Presents coverage of a wide range of simulation technologies Explores the subject of emergence through the lens of Modeling and Simulation M S Offers contributions from authors at the forefront of various related disciplines such as philosophy science engineering sociology and economics Contains information on the next generation of complex systems engineering Written for researchers lecturers and students *Emergent Behavior in Complex Systems Engineering* provides an overview of the current discussions on complexity and emergence and shows how systems engineering methods in general and simulation methods in particular can help in gaining new insights in complex systems engineering

Did My Neurons Make Me Do It? Nancey Murphy, Warren S. Brown, 2007-06-14 The authors here provide a novel contribution to the debate on free will by offering cutting edge research at the intersection of philosophy and the cognitive sciences The volume reframes long standing philosophical problems in light of recent developments in neuroscience and related fields

Formal Methods for Open Object-based Distributed Systems Howard Bowman, John Derrick, 2016-01-09 This book presents the leading edge in several related fields specifically object orientated programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Many topics are discussed including the following important areas object oriented design and programming formal specification of distributed systems open distributed platforms types interfaces and

behaviour formalisation of object oriented methods

ANURAN COMMUNICATION RYAN MICHAEL J,2001-05-17 In this volume 25 scientists from around the world review the most recent advances in the study of how frogs and toads communicate The contributors who are experts in disciplines including animal behaviour developmental biology endocrinology evolution ecology and neurobiology examine this amphibian order s vocal visual and chemical signals the physiology and energetics of their production neural processing related behaviours and evolutionary implications As the chapters demonstrate research developments have led to further understanding of the role of the anuran larynx in sound production how the anuran brain recognizes sound and how both of these processes are influenced by the animal s physiological state The contributors also discuss male to male call strategies as well as how female preferences for call variation contribute to sexual selection speciation and hybridization The text presents material about kin recognition abilities and the surprising range of visual displays by tropical anurans and examines how the inherent structure of the auditory system might generate sensory biases that influence signal evolution

The Soft Budget Constraint — The Emergence, Persistence and Logic of an Institution Gun Eriksson Skoog,2013-04-18 This is a story of the soft budget constraint It seeks an answer to a paradox the prevalence of the soft budget constraint in spite of the tremendous inefficiencies that it gives rise to and its persistence in spite of reform of the system of which it is an integral part The story aims at increasing our understanding of why the phenomenon exists By studying the case of state in Tanzania before during and after socialism an explanation of the owned enterprises emergence persistence and logic of the soft budget constraint is suggested This introductory chapter presents an argument showing why this story is worth telling It discusses the research topic and how the problem it presents is attacked

THE SOFT BUDGET CONSTRAINT The soft budget constraint is today a popular metaphor Originally it was seen as a characteristic of the socialist system It refers to the tendency of primarily state owned enterprises to have their liquidity gaps or losses accommodated by the state or some other external funding body and to the resulting expectations of such bail out The concept was coined by the Hungarian economist Hmos Kornai He distinguishes between four major forms of external financial assistance that contribute to the soft budget constraint soft subsidies soft taxation soft credit and soft 2 administrative pricing

Highlights of Practical Applications of Survivable Agents and Multi-Agent Systems. The PAAMS Collection Fernando De La Prieta,Alfonso González-Briones,Pawel Pawleski, Davide Calvaresi,Elena Del Val,Fernando Lopes,Vicente Julian,Eneko Osaba,Ramón Sánchez-Iborra,2019-06-24 This book constitutes the refereed proceedings of the workshops and special session co located with the 17th International Conference on Practical Applications of Agents and Multi Agent Systems PAAMS 2019 held in vila Spain in June 2019 The total of 26 full and 8 short papers presented in this volume were carefully reviewed and selected from 47 submissions The book also contains extended abstracts of the doctoral consortium contributions The papers in this volume stem from the following meetings Workshop on Agents Based Solutions for Manufacturing and Supply Chain AMSC Second International Workshop on Blockchain

Technology for Multi Agent Systems BTC4MAS Workshop on MAS for Complex Networks and Social Computation CNSC Workshop on Multi Agent Based Applications for Energy Markets Smart Grids and Sustainable Energy Systems MASGES Workshop on Smart Cities and Intelligent Agents SCIA and Workshop on Swarm Intelligence and Swarm Robotics SISR as well as the special session on Software Agents and Virtualization for Internet of Things SAVIoTS *Languages, Methodologies and Development Tools for Multi-Agent Systems* Mehdi Dastani,2008-07-18 This book constitutes the thoroughly refereed post workshop proceedings of the First International Workshop on Languages Methodologies and Development Tools for Multi Agent Systems LADS 2007 held in Durham UK in September 2007 The workshop was part of MALLOW 2007 a federation of workshops on Multi Agent Logics Languages and Organizations The 15 revised full papers presented together with 1 invited paper reporting the aims and achievements of the OpenKnowledge project were carefully reviewed and selected from 32 submissions The papers are organized in topical sections on agent reasoning and semantics declarative languages and technologies methodologies and design and development frameworks Cities And Regions As Nonlinear Decision Systems Robert W Crosby,2019-03-08 This book presents an exposition of ongoing research in the fields of non linear dynamic systems driven by the decisions of human beings and cognitive science as they relate to urban and regional analysis It aims to illuminate the social and economic functioning of cities and regions *System Design and Control Integration for Advanced Manufacturing* Han-Xiong Li,Xinjiang Lu,2014-10-27 Most existing robust design books address design for static systems or achieve robust design from experimental data via the Taguchi method Little work considers model information for robust design particularly for the dynamic system This book covers robust design for both static and dynamic systems using the nominal model information or the hybrid model data information and also integrates design with control under a large operating region This design can handle strong nonlinearity and more uncertainties from model and parameters *Architecting Dependable Systems* Rogério de Lemos,Cristina Gacek,Alexander Romanovsky,2007-08-01 As software systems become more and more ubiquitous the issues of dependability become more and more critical Given that solutions to these issues must be planned at the beginning of the design process it is appropriate that these issues be addressed at the architectural level This book is inspired by the ICSE 2002 Workshop on Architecting Dependable Systems it is devoted to current topics relevant for improving the state of the art for architecting dependability Some of the 13 peer reviewed papers presented were initially presented at the workshop others were invited in order to achieve competent and complete coverage of all relevant aspects The papers are organized in topical sections on architectures for dependability fault tolerance in software architectures dependability analysis in software architectures industrial experience *A Top-Down, Constraint-Driven Design Methodology for Analog Integrated Circuits* Henry Chang,Edoardo Charbon,Umakanta Choudhury,Alper Demir,Eric Felt,Edward Liu,Enrico Malavasi,Alberto Sangiovanni-Vincentelli,Iasson Vassiliou,2011-06-28 Analog circuit design is often the bottleneck when designing mixed

analog digital systems A Top Down Constraint Driven Design Methodology for Analog Integrated Circuits presents a new methodology based on a top down constraint driven design paradigm that provides a solution to this problem This methodology has two principal advantages 1 it provides a high probability for the first silicon which meets all specifications and 2 it shortens the design cycle A Top Down Constraint Driven Design Methodology for Analog Integrated Circuits is part of an ongoing research effort at the University of California at Berkeley in the Electrical Engineering and Computer Sciences Department Many faculty and students past and present are working on this design methodology and its supporting tools The principal goals are 1 developing the design methodology 2 developing and applying new tools and 3 proving the methodology by undertaking industrial strength design examples The work presented here is neither a beginning nor an end in the development of a complete top down constraint driven design methodology but rather a step in its development This work is divided into three parts Chapter 2 presents the design methodology along with foundation material Chapters 3 8 describe supporting concepts for the methodology from behavioral simulation and modeling to circuit module generators Finally Chapters 9 11 illustrate the methodology in detail by presenting the entire design cycle through three large scale examples These include the design of a current source D A converter a Sigma Delta A D converter and a video driver system Chapter 12 presents conclusions and current research topics A Top Down Constraint Driven Design Methodology for Analog Integrated Circuits will be of interest to analog and mixed signal designers as well as CAD tool developers

Encyclopedia of the Sciences of Learning Norbert M. Seel, 2011-10-05 Over the past century educational psychologists and researchers have posited many theories to explain how individuals learn i e how they acquire organize and deploy knowledge and skills The 20th century can be considered the century of psychology on learning and related fields of interest such as motivation cognition metacognition etc and it is fascinating to see the various mainstreams of learning remembered and forgotten over the 20th century and note that basic assumptions of early theories survived several paradigm shifts of psychology and epistemology Beyond folk psychology and its naive theories of learning psychological learning theories can be grouped into some basic categories such as behaviorist learning theories connectionist learning theories cognitive learning theories constructivist learning theories and social learning theories Learning theories are not limited to psychology and related fields of interest but rather we can find the topic of learning in various disciplines such as philosophy and epistemology education information science biology and as a result of the emergence of computer technologies especially also in the field of computer sciences and artificial intelligence As a consequence machine learning struck a chord in the 1980s and became an important field of the learning sciences in general As the learning sciences became more specialized and complex the various fields of interest were widely spread and separated from each other as a consequence even presently there is no comprehensive overview of the sciences of learning or the central theoretical concepts and vocabulary on which researchers rely The Encyclopedia of the Sciences of Learning provides an up to date broad and authoritative coverage of the specific

terms mostly used in the sciences of learning and its related fields including relevant areas of instruction pedagogy cognitive sciences and especially machine learning and knowledge engineering This modern compendium will be an indispensable source of information for scientists educators engineers and technical staff active in all fields of learning More specifically the Encyclopedia provides fast access to the most relevant theoretical terms provides up to date broad and authoritative coverage of the most important theories within the various fields of the learning sciences and adjacent sciences and communication technologies supplies clear and precise explanations of the theoretical terms cross references to related entries and up to date references to important research and publications The Encyclopedia also contains biographical entries of individuals who have substantially contributed to the sciences of learning the entries are written by a distinguished panel of researchers in the various fields of the learning sciences

Flexible Robotics Mathieu Grossard, Nicolas Chaillet, Stephane Regnier, 2013-08-05 The objective of this book is to provide those interested in the field of flexible robotics with an overview of several scientific and technological advances in the practical field of robotic manipulation The different chapters examine various stages that involve a number of robotic devices particularly those designed for manipulation tasks characterized by mechanical flexibility Chapter 1 deals with the general context surrounding the design of functionally integrated microgripping systems Chapter 2 focuses on the dual notations of modal commandability and observability which play a significant role in the control authority of vibratory modes that are significant for control issues Chapter 3 presents different modeling tools that allow the simultaneous use of energy and system structuring notations Chapter 4 discusses two sensorless methods that could be used for manipulation in confined or congested environments Chapter 5 analyzes several appropriate approaches for responding to the specific needs required by versatile prehension tasks and dexterous manipulation After a classification of compliant tactile sensors focusing on dexterous manipulation Chapter 6 discusses the development of a complying triaxial force sensor based on piezoresistive technology Chapter 7 deals with the constraints imposed by submicrometric precision in robotic manipulation Chapter 8 presents the essential stages of the modeling identification and analysis of control laws in the context of serial manipulator robots with flexible articulations Chapter 9 provides an overview of models for deformable body manipulators Finally Chapter 10 presents a set of contributions that have been made with regard to the development of methodologies for identification and control of flexible manipulators based on experimental data

Contents

- 1 Design of Integrated Flexible Structures for Micromanipulation Mathieu Grossard Mehdi Boukallel St phane R gnier and Nicolas Chaillet
- 2 Flexible Structures Representation and Notable Properties in Control Mathieu Grossard Arnaud Hubert St phane R gnier and Nicolas Chaillet
- 3 Structured Energy Approach for the Modeling of Flexible Structures Nandish R Calchand Arnaud Hubert Yann Le Gorrec and Hector Ramirez Estay
- 4 Open Loop Control Approaches to Compliant Micromanipulators Yassine Haddab Vincent Chalvet and Micky Rakotondrabe
- 5 Mechanical Flexibility and the Design of Versatile and Dexterous Grippers Javier Martin Amezaga and Mathieu Grossard
- 6 Flexible

Tactile Sensors for Multidigital Dexterous In hand Manipulation Mehdi Boukallel Hanna Yousef Christelle Godin and Caroline Coutier 7 Flexures for High Precision Manipulation Robots Reymond Clavel Simon Henein and Murielle Richard 8 Modeling and Motion Control of Serial Robots with Flexible Joints Maria Makarov and Mathieu Grossard 9 Dynamic Modeling of Deformable Manipulators Fr d ric Boyer and Ayman Belkhiri 10 Robust Control of Robotic Manipulators with Structural Flexibilities Housseem Halalchi Lo c Cuvillon Guillaume Merc re and Edouard Laroche About the Authors Mathieu Grossard CEA LIST Gif sur Yvette France Nicolas Chaillet FEMTO ST Besan on France St phane R gnier ISIR UPMC Paris France

Cognitive Work Analysis: Coping with Complexity Dr Daniel P Jenkins, Dr Guy H Walker, Professor Neville A Stanton, Professor Paul M Salmon, 2012-10-01 Complex sociotechnical systems are systems made up of numerous interacting parts both human and non human operating in dynamic ambiguous and safety critical domains Cognitive Work Analysis CWA is a structured framework specifically developed for considering the development and analysis of these complex socio technical systems Unlike many human factors approaches CWA does not focus on how human system interaction should proceed normative modelling or how human system interaction currently works descriptive modelling Instead through a focus on constraints it develops a model of how work can be conducted within a given work domain without explicitly identifying specific sequences of actions formative modelling The framework leads the analyst to consider the environment the task takes place within and the effect of the imposed constraints on the way work can be conducted It provides guidance through the process of answering the questions of why the system exists what activities can be conducted within the domain as well as how these activities can be achieved and who can perform them The first part of the book contains a comprehensive description of CWA introducing it to the uninitiated It then presents a number of applications in complex military domains to explore and develop the benefits of CWA Unlike much of the previous literature particular attention is placed on exploring the CWA framework in its entirety This holistic approach focuses on the system environment the activity that takes place within it the strategies used to conduct this activity the way in which the constituent parts of the system both human and non human interact and the behaviour required Each stage of this analysis identifies the constraints governing the system it is contended that through this holistic understanding of constraints recommendations can be made for the design of system interaction increasing the ability of users to cope with unanticipated unexpected situations This book discusses the applicability of the approach in system analysis development and evaluation It provides process to what was previously a loosely defined framework Manufacturing Systems and Technologies for the New Frontier Fumihiko Kimura, 2008-05-19 Collected here are 112 papers concerned with new directions in manufacturing systems given at the 41st CIRP Conference on Manufacturing Systems The high quality material includes reports of work from both scientific and engineering standpoints

Immerse yourself in heartwarming tales of love and emotion with its touching creation, Tender Moments: **Flexibility And Constraint In Behavioral Systems** . This emotionally charged ebook, available for download in a PDF format (Download in PDF: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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Table of Contents Flexibility And Constraint In Behavioral Systems

1. Understanding the eBook Flexibility And Constraint In Behavioral Systems
 - The Rise of Digital Reading Flexibility And Constraint In Behavioral Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying Flexibility And Constraint In Behavioral Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Flexibility And Constraint In Behavioral Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flexibility And Constraint In Behavioral Systems
 - Personalized Recommendations
 - Flexibility And Constraint In Behavioral Systems User Reviews and Ratings
 - Flexibility And Constraint In Behavioral Systems and Bestseller Lists
5. Accessing Flexibility And Constraint In Behavioral Systems Free and Paid eBooks
 - Flexibility And Constraint In Behavioral Systems Public Domain eBooks
 - Flexibility And Constraint In Behavioral Systems eBook Subscription Services
 - Flexibility And Constraint In Behavioral Systems Budget-Friendly Options
6. Navigating Flexibility And Constraint In Behavioral Systems eBook Formats

- ePub, PDF, MOBI, and More
 - Flexibility And Constraint In Behavioral Systems Compatibility with Devices
 - Flexibility And Constraint In Behavioral Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flexibility And Constraint In Behavioral Systems
 - Highlighting and Note-Taking Flexibility And Constraint In Behavioral Systems
 - Interactive Elements Flexibility And Constraint In Behavioral Systems
 8. Staying Engaged with Flexibility And Constraint In Behavioral Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flexibility And Constraint In Behavioral Systems
 9. Balancing eBooks and Physical Books Flexibility And Constraint In Behavioral Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flexibility And Constraint In Behavioral Systems
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Flexibility And Constraint In Behavioral Systems
 - Setting Reading Goals Flexibility And Constraint In Behavioral Systems
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Flexibility And Constraint In Behavioral Systems
 - Fact-Checking eBook Content of Flexibility And Constraint In Behavioral Systems
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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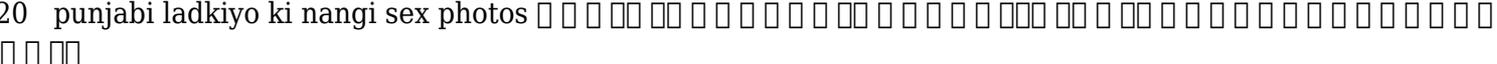
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