



# Speech Recognition and Coding

## New Advances and Trends

Edited by  
Antonio J. Rubio Ayuso    Juan M. López Soler

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# Speech Recognition And Coding New Advances And Trends

**Gokhan Tur, Renato De Mori**



## **Speech Recognition And Coding New Advances And Trends:**

**Speech Recognition and Coding** Antonio J. Rubio Ayuso, Juan M. Lopez-Soler, 1995-10-20 Based on a NATO Advanced Study Institute held in 1993 this book addresses recent advances in automatic speech recognition and speech coding The book contains contributions by many of the most outstanding researchers from the best laboratories worldwide in the field The contributions have been grouped into five parts on acoustic modeling language modeling speech processing analysis and synthesis speech coding and vector quantization and neural nets For each of these topics some of the best known researchers were invited to give a lecture In addition to these lectures the topics were complemented with discussions and presentations of the work of those attending Altogether the reader is given a wide perspective on recent advances in the field and will be able to see the trends for future work *Speech Recognition and Coding* Antonio J. Rubio Ayuso, Juan M. Lopez

Soler, 2012-12-06 Based on a NATO Advanced Study Institute held in 1993 this book addresses recent advances in automatic speech recognition and speech coding The book contains contributions by many of the most outstanding researchers from the best laboratories worldwide in the field The contributions have been grouped into five parts on acoustic modeling language modeling speech processing analysis and synthesis speech coding and vector quantization and neural nets For each of these topics some of the best known researchers were invited to give a lecture In addition to these lectures the topics were complemented with discussions and presentations of the work of those attending Altogether the reader is given a wide perspective on recent advances in the field and will be able to see the trends for future work **New Advances and Trends**

**in Speech Recognition and Coding**, 1993 Language and Speech Processing Joseph Mariani, 2013-03-01 Speech processing addresses various scientific and technological areas It includes speech analysis and variable rate coding in order to store or transmit speech It also covers speech synthesis especially from text speech recognition including speaker and language identification and spoken language understanding This book covers the following topics how to realize speech production and perception systems how to synthesize and understand speech using state of the art methods in signal processing pattern recognition stochastic modelling computational linguistics and human factor studies Real-Time Vision for Human-Computer Interaction Branislav Kisacanin, Vladimir Pavlovic, Thomas S. Huang, 2005-12-06 200Ts Vision of Vision

One of my formative childhood experiences was in 1968 stepping into the Uptown Theater on Connecticut Avenue in Washington DC one of the few movie theaters nationwide that projected in large screen cinerama I was there at the urging of a friend who said I simply must see the remarkable film whose run had started the previous week You won't understand it he said but that doesn't matter All I knew was that the film was about science fiction and had great special effects So I sat in the front row of the balcony munched my popcorn sat back and experienced what was widely touted as the ultimate trip 2001 A Space Odyssey My friend was right I didn't understand it but in some senses that didn't matter Even today after seeing the film 40 times I continue to discover its many subtle secrets I just had the sense that I had experienced a creation of the

highest aesthetic order unique fresh awe inspiring Here was a film so distinctive that the first half hour had no words whatsoever the last half hour had no words either and nearly all the words in between were banal and irrelevant to the plot quips about security through Voiceprint identification how to make a phonecall from a space station government pension plans and so on

**Computational Models of Speech Pattern Processing** Keith Ponting, 2012-12-06 Proceedings of the NATO Advanced Study Institute on Computational Models of Speech Pattern Processing held in St Helier Jersey UK July 7 18 1997

**Evaluation of Text and Speech Systems** Laila Dybkjær, Holmer Hemsén, Wolfgang Minker, 2007-05-07 In its nine chapters this book provides an overview of the state of the art and best practice in several sub fields of evaluation of text and speech systems and components The evaluation aspects covered include speech and speaker recognition speech synthesis animated talking agents part of speech tagging parsing and natural language software like machine translation information retrieval question answering spoken dialogue systems data resources and annotation schemes With its broad coverage and original contributions this book is unique in the field of evaluation of speech and language technology This book is of particular relevance to advanced undergraduate students PhD students academic and industrial researchers and practitioners

*Speechreading by Humans and Machines* David G. Stork, Marcus E. Hennecke, 2013-11-11 This book is one outcome of the NATO Advanced Studies Institute ASI Workshop Speechreading by Man and Machine held at the Chateau de Bonas Castera Verduzan near Auch France from August 28 to September 8 1995 the first interdisciplinary meeting devoted the subject of speechreading lipreading The forty five attendees from twelve countries covered the gamut of speechreading research from brain scans of humans processing bi modal stimuli to psychophysical experiments and illusions to statistics of comprehension by the normal and deaf communities to models of human perception to computer vision and learning algorithms and hardware for automated speechreading machines The first week focussed on speechreading by humans the second week by machines a general organization that is preserved in this volume After the inevitable difficulties in clarifying language and terminology across disciplines as diverse as human neurophysiology audiology psychology electrical engineering mathematics and computer science the participants engaged in lively discussion and debate We think it is fair to say that there was an atmosphere of excitement and optimism for a field that is both fascinating and potentially lucrative Of the many general results that can be taken from the workshop two of the key ones are these The ways in which humans employ visual image for speech recognition are manifold and complex and depend upon the talker perceiver pair severity and age of onset of any hearing loss whether the topic of conversation is known or unknown the level of noise and so forth

Human Interface and the Management of Information: Information, Design and Interaction Sakae Yamamoto, 2016-07-04 The two volume set LNCS 9734 and 9735 constitutes the refereed proceedings of the Human Interface and the Management of Information thematic track held as part of the 18th International Conference on Human Computer Interaction HCII 2016 held in Toronto Canada in July 2016 HCII 2016 received a total of 4354 submissions of which 1287 papers were accepted for

publication after a careful reviewing process These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas This volume contains papers addressing the following major topics information presentation big data visualization information analytics discovery and exploration interaction design human centered design haptic tactile and multimodal interaction

**Computing Handbook, Third Edition** Teofilo Gonzalez, Jorge Diaz-Herrera, Allen Tucker, 2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today's world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

Innovations in Applied Artificial Intelligence Floriana Esposito, 2005-06-16 Intelligent systems are those which produce intelligent outputs AI researchers have been focusing on developing and employing strong methods that are capable of solving complex real life problems The 18th International Conference on Industrial Engineering Applications of Artificial Intelligence Expert Systems IEA AIE 2005 held in Bari Italy presented such work performed by many scientists worldwide The Program Committee selected long papers from contributions presenting more complete work and posters from those reporting ongoing research The Committee enforced the rule that only original and unpublished work could be considered for inclusion in these proceedings The Program Committee selected 116 contributions from the 271 submitted papers which cover the following topics artificial systems search engines intelligent interfaces knowledge discovery knowledge based technologies natural language processing machine learning applications reasoning technologies uncertainty management applied data mining and technologies for knowledge management The contributions oriented to the technological aspects of AI and the quality of the papers are witness to a research activity clearly aimed at consolidating the theoretical results that have already been achieved The conference program also included two invited lectures by Katharina Morik and Roberto Pieraccini Many people contributed in different ways to the success of the conference and to this volume The authors who continue to show their enthusiastic interest in applied intelligence research are a very important part of our success We highly appreciate the

contribution of the members of the Program Committee as well as others who reviewed all the submitted papers with efficiency and dedication

***Verification of Digital and Hybrid Systems*** M. Kemal Inan, Robert P. Kurshan, 2012-12-06 This book grew out of a NATO Advanced Study Institute summer school that was held in Antalya Turkey from 26 May to 6 June 1997 The purpose of the summer school was to expose recent advances in the formal verification of systems composed of both logical and continuous time components The course was structured in two parts The first part covered theorem proving system automaton models logics tools and complexity of verification The second part covered modeling and verification of hybrid systems i e systems composed of a discrete event part and a continuous time part that interact with each other in novel ways Along with advances in microelectronics methods to design and build logical systems have grown progressively complex One way to tackle the problem of ensuring the error free operation of digital or hybrid systems is through the use of formal techniques The exercise of comparing the formal specification of a logical system namely what it is supposed to do to its formal operational description what it actually does in an automated or semi automated manner is called verification Verification can be performed in an after the fact manner meaning that after a system is already designed its specification and operational description are regenerated or modified if necessary to match the verification tool at hand and the consistency check is carried out

***Speech and Computer*** Andrey Ronzhin, Rodmonga Potapova, Delic Vlado, 2014-10-10 This book constitutes the refereed proceedings of the 16th International Conference on Speech and Computer SPECOM 2014 held in Novi Sad Serbia The 56 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 100 initial submissions It is a conference with long tradition that attracts researchers in the area of computer speech processing recognition synthesis understanding etc and related domains including signal processing language and text processing multi modal speech processing or human computer interaction for instance

**Spoken Language Understanding** Gokhan Tur, Renato De Mori, 2011-05-03 Spoken language understanding SLU is an emerging field in between speech and language processing investigating human machine and human human communication by leveraging technologies from signal processing pattern recognition machine learning and artificial intelligence SLU systems are designed to extract the meaning from speech utterances and its applications are vast from voice search in mobile devices to meeting summarization attracting interest from both commercial and academic sectors Both human machine and human human communications can benefit from the application of SLU using differing tasks and approaches to better understand and utilize such communications This book covers the state of the art approaches for the most popular SLU tasks with chapters written by well known researchers in the respective fields Key features include Presents a fully integrated view of the two distinct disciplines of speech processing and language processing for SLU tasks Defines what is possible today for SLU as an enabling technology for enterprise e g customer care centers or company meetings and consumer e g entertainment mobile car robot or smart environments applications and outlines the key research areas Provides a unique

source of distilled information on methods for computer modeling of semantic information in human machine and human human conversations This book can be successfully used for graduate courses in electronics engineering computer science or computational linguistics Moreover technologists interested in processing spoken communications will find it a useful source of collated information of the topic drawn from the two distinct disciplines of speech processing and language processing under the new area of SLU      *Workflow Management Systems and Interoperability* Asuman Dogac, Leonid

Kalinichenko, Tamer Özsu, Amit Sheth, 2012-12-06 Workflow management systems WFMS are enjoying increasing popularity due to their ability to coordinate and streamline complex organizational processes within organizations of all sizes Organizational processes are descriptions of an organization's activities engineered to fulfill its mission such as completing a business contract or satisfying a specific customer request Gaining control of these processes allows an organization to reengineer and improve each process or adapt them to changing requirements The goal of WFMSs is to manage these organizational processes and coordinate their execution was demonstrated in the first half The high degree of interest in WFMSs of the 1990s by a significant increase in the number of commercial products once estimated to about 250 and the estimated market size in combined 2 billion in 1996 Ensuing maturity product sales and services of about is demonstrated by consolidations during the last year Ranging from mere e mail based calendar tools and flow charting tools to very sophisticated integrated development environments for distributed enterprise wide applications and systems to support programming in the large these products are finding an eager market and opening up important research and development opportunities In spite of their early success in the marketplace however the current generation of systems can benefit from further research and development especially for increasingly complex and mission critical applications      *Grammatical Inference: Algorithms and Applications* Arlindo L. Oliveira, 2004-02-13 This book constitutes the refereed proceedings of the 5th International Colloquium on Grammatical Inference ICGI 2000 held in Lisbon Portugal in September 2000 The 24 revised full papers presented were carefully reviewed and selected from 35 submissions The papers address topics like machine learning automata theoretical computer science computational linguistics pattern recognition artificial neural networks natural language acquisition computational biology information retrieval text processing and adaptive intelligent agents

**Neural Circuits and Networks** Vincent Torre, John Nicholls, 2012-12-06 The understanding of parallel processing and of the mechanisms underlying neural networks in the brain is certainly one of the most challenging problems of contemporary science During the last decades significant progress has been made by the combination of different techniques which have elucidated properties at a cellular and molecular level However in order to make significant progress in this field it is necessary to gather more direct experimental data on the parallel processing occurring in the nervous system Indeed the nervous system overcomes the limitations of its elementary components by employing a massive degree of parallelism through the extremely rich set of synaptic interconnections between neurons This book gathers a selection of the

contributions presented during the NATO ASI School Neuronal Circuits and Networks held at the Ettore Majorana Center in Erice Sicily from June 15 to 27 1997 The purpose of the School was to present an overview of recent results on single cell properties the dynamics of neuronal networks and modelling of the nervous system The School and the present book propose an interdisciplinary approach of experimental and theoretical aspects of brain functions combining different techniques and methodologies

Grammatical Inference and Applications Rafael C. Carrasco, Jose Oncina, 1994-09-07 This volume presents the proceedings of the Second International Colloquium on Grammatical Inference ICGI 94 held in Alicante Spain in September 1994 Besides 25 research papers carefully selected and refereed by the program committee the book contains a survey by E Vidal The book is devoted to all those aspects of automatic learning that explicitly focus on principles theory and applications of grammars and languages The papers are organized in sections on formal aspects language modelling and linguistic applications stochastic approaches applications and performance analysis and neural networks genetic algorithms and artificial intelligence techniques

**The Voice in the Machine** Roberto Pieraccini, 2012-03-23 An examination of more than sixty years of successes and failures in developing technologies that allow computers to understand human spoken language Stanley Kubrick's 1968 film 2001 A Space Odyssey famously featured HAL a computer with the ability to hold lengthy conversations with his fellow space travelers More than forty years later we have advanced computer technology that Kubrick never imagined but we do not have computers that talk and understand speech as HAL did Is it a failure of our technology that we have not gotten much further than an automated voice that tells us to say or press 1 Or is there something fundamental in human language and speech that we do not yet understand deeply enough to be able to replicate in a computer In *The Voice in the Machine* Roberto Pieraccini examines six decades of work in science and technology to develop computers that can interact with humans using speech and the industry that has arisen around the quest for these technologies He shows that although the computers today that understand speech may not have HAL's capacity for conversation they have capabilities that make them usable in many applications today and are on a fast track of improvement and innovation Pieraccini describes the evolution of speech recognition and speech understanding processes from waveform methods to artificial intelligence approaches to statistical learning and modeling of human speech based on a rigorous mathematical model specifically Hidden Markov Models HMM He details the development of dialog systems the ability to produce speech and the process of bringing talking machines to the market Finally he asks a question that only the future can answer will we end up with HAL like computers or something completely unexpected

*Extended Finite State Models of Language* Andras Kornai, 1999-09-13 This book and CD ROM cover the breadth of contemporary finite state language modeling from mathematical foundations to developing and debugging specific grammars



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$\text{C}_{15}\text{H}_{32}$  212 g mol 25  $\text{C}_{16}\text{H}_{34}$  226 g mol 26  $\text{C}_{17}\text{H}_{36}$  240 g mol 27  $\text{C}_{18}\text{H}_{38}$  254 g mol 28  $\text{C}_{19}\text{H}_{40}$  268 g mol 29  $\text{C}_{20}\text{H}_{42}$  282 g mol 30  $\text{C}_{21}\text{H}_{44}$  296 g mol 31  $\text{C}_{22}\text{H}_{46}$  310 g mol 32  $\text{C}_{23}\text{H}_{48}$  324 g mol 33  $\text{C}_{24}\text{H}_{50}$  338 g mol 34  $\text{C}_{25}\text{H}_{52}$  352 g mol 35  $\text{C}_{26}\text{H}_{54}$  366 g mol 36  $\text{C}_{27}\text{H}_{56}$  380 g mol 37  $\text{C}_{28}\text{H}_{58}$  394 g mol 38  $\text{C}_{29}\text{H}_{60}$  408 g mol 39  $\text{C}_{30}\text{H}_{62}$  422 g mol 40  $\text{C}_{31}\text{H}_{64}$  436 g mol 41  $\text{C}_{32}\text{H}_{66}$  450 g mol 42  $\text{C}_{33}\text{H}_{68}$  464 g mol 43  $\text{C}_{34}\text{H}_{70}$  478 g mol 44  $\text{C}_{35}\text{H}_{72}$  492 g mol 45  $\text{C}_{36}\text{H}_{74}$  506 g mol 46  $\text{C}_{37}\text{H}_{76}$  520 g mol 47  $\text{C}_{38}\text{H}_{78}$  534 g mol 48  $\text{C}_{39}\text{H}_{80}$  548 g mol 49  $\text{C}_{40}\text{H}_{82}$  562 g mol 50  $\text{C}_{41}\text{H}_{84}$  576 g mol 51  $\text{C}_{42}\text{H}_{86}$  590 g mol 52  $\text{C}_{43}\text{H}_{88}$  604 g mol 53  $\text{C}_{44}\text{H}_{90}$  618 g mol 54  $\text{C}_{45}\text{H}_{92}$  632 g mol 55  $\text{C}_{46}\text{H}_{94}$  646 g mol 56  $\text{C}_{47}\text{H}_{96}$  660 g mol 57  $\text{C}_{48}\text{H}_{98}$  674 g mol 58  $\text{C}_{49}\text{H}_{100}$  688 g mol 59  $\text{C}_{50}\text{H}_{102}$  702 g mol 60  $\text{C}_{51}\text{H}_{104}$  716 g mol 61  $\text{C}_{52}\text{H}_{106}$  730 g mol 62  $\text{C}_{53}\text{H}_{108}$  744 g mol 63  $\text{C}_{54}\text{H}_{110}$  758 g mol 64  $\text{C}_{55}\text{H}_{112}$  772 g mol 65  $\text{C}_{56}\text{H}_{114}$  786 g mol 66  $\text{C}_{57}\text{H}_{116}$  800 g mol 67  $\text{C}_{58}\text{H}_{118}$  814 g mol 68  $\text{C}_{59}\text{H}_{120}$  828 g mol 69  $\text{C}_{60}\text{H}_{122}$  842 g mol 70  $\text{C}_{61}\text{H}_{124}$  856 g mol 71  $\text{C}_{62}\text{H}_{126}$  870 g mol 72  $\text{C}_{63}\text{H}_{128}$  884 g mol 73  $\text{C}_{64}\text{H}_{130}$  898 g mol 74  $\text{C}_{65}\text{H}_{132}$  912 g mol 75  $\text{C}_{66}\text{H}_{134}$  926 g mol 76  $\text{C}_{67}\text{H}_{136}$  940 g mol 77  $\text{C}_{68}\text{H}_{138}$  954 g mol 78  $\text{C}_{69}\text{H}_{140}$  968 g mol 79  $\text{C}_{70}\text{H}_{142}$  982 g mol 80  $\text{C}_{71}\text{H}_{144}$  996 g mol 81  $\text{C}_{72}\text{H}_{146}$  1010 g mol 82  $\text{C}_{73}\text{H}_{148}$  1024 g mol 83  $\text{C}_{74}\text{H}_{150}$  1038 g mol 84  $\text{C}_{75}\text{H}_{152}$  1052 g mol 85  $\text{C}_{76}\text{H}_{154}$  1066 g mol 86  $\text{C}_{77}\text{H}_{156}$  1080 g mol 87  $\text{C}_{78}\text{H}_{158}$  1094 g mol 88  $\text{C}_{79}\text{H}_{160}$  1108 g mol 89  $\text{C}_{80}\text{H}_{162}$  1122 g mol 90  $\text{C}_{81}\text{H}_{164}$  1136 g mol 91  $\text{C}_{82}\text{H}_{166}$  1150 g mol 92  $\text{C}_{83}\text{H}_{168}$  1164 g mol 93  $\text{C}_{84}\text{H}_{170}$  1178 g mol 94  $\text{C}_{85}\text{H}_{172}$  1192 g mol 95  $\text{C}_{86}\text{H}_{174}$  1206 g mol 96  $\text{C}_{87}\text{H}_{176}$  1220 g mol 97  $\text{C}_{88}\text{H}_{178}$  1234 g mol 98  $\text{C}_{89}\text{H}_{180}$  1248 g mol 99  $\text{C}_{90}\text{H}_{182}$  1262 g mol 100  $\text{C}_{91}\text{H}_{184}$  1276 g mol 101  $\text{C}_{92}\text{H}_{186}$  1290 g mol 102  $\text{C}_{93}\text{H}_{188}$  1304 g mol 103  $\text{C}_{94}\text{H}_{190}$  1318 g mol 104  $\text{C}_{95}\text{H}_{192}$  1332 g mol 105  $\text{C}_{96}\text{H}_{194}$  1346 g mol 106  $\text{C}_{97}\text{H}_{196}$  1360 g mol 107  $\text{C}_{98}\text{H}_{198}$  1374 g mol 108  $\text{C}_{99}\text{H}_{200}$  1388 g mol 109  $\text{C}_{100}\text{H}_{202}$  1402 g mol 110  $\text{C}_{101}\text{H}_{204}$  1416 g mol 111  $\text{C}_{102}\text{H}_{206}$  1430 g mol 112  $\text{C}_{103}\text{H}_{208}$  1444 g mol 113  $\text{C}_{104}\text{H}_{210}$  1458 g mol 114  $\text{C}_{105}\text{H}_{212}$  1472 g mol 115  $\text{C}_{106}\text{H}_{214}$  1486 g mol 116  $\text{C}_{107}\text{H}_{216}$  1500 g mol 117  $\text{C}_{108}\text{H}_{218}$  1514 g mol 118  $\text{C}_{109}\text{H}_{220}$  1528 g mol 119  $\text{C}_{110}\text{H}_{222}$  1542 g mol 120  $\text{C}_{111}\text{H}_{224}$  1556 g mol 121  $\text{C}_{112}\text{H}_{226}$  1570 g mol 122  $\text{C}_{113}\text{H}_{228}$  1584 g mol 123  $\text{C}_{114}\text{H}_{230}$  1598 g mol 124  $\text{C}_{115}\text{H}_{232}$  1612 g mol 125  $\text{C}_{116}\text{H}_{234}$  1626 g mol 126  $\text{C}_{117}\text{H}_{236}$  1640 g mol 127  $\text{C}_{118}\text{H}_{238}$  1654 g mol 128  $\text{C}_{119}\text{H}_{240}$  1668 g mol 129  $\text{C}_{120}\text{H}_{242}$  1682 g mol 130  $\text{C}_{121}\text{H}_{244}$  1696 g mol 131  $\text{C}_{122}\text{H}_{246}$  1710 g mol 132  $\text{C}_{123}\text{H}_{248}$  1724 g 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2018 g mol 154  $\text{C}_{145}\text{H}_{292}$  2032 g mol 155  $\text{C}_{146}\text{H}_{294}$  2046 g mol 156  $\text{C}_{147}\text{H}_{296}$  2060 g mol 157  $\text{C}_{148}\text{H}_{298}$  2074 g mol 158  $\text{C}_{149}\text{H}_{300}$  2088 g mol 159  $\text{C}_{150}\text{H}_{302}$  2102 g mol 160  $\text{C}_{151}\text{H}_{304}$  2116 g mol 161  $\text{C}_{152}\text{H}_{306}$  2130 g mol 162  $\text{C}_{153}\text{H}_{308}$  2144 g mol 163  $\text{C}_{154}\text{H}_{310}$  2158 g mol 164  $\text{C}_{155}\text{H}_{312}$  2172 g mol 165  $\text{C}_{156}\text{H}_{314}$  2186 g mol 166  $\text{C}_{157}\text{H}_{316}$  2200 g mol 167  $\text{C}_{158}\text{H}_{318}$  2214 g mol 168  $\text{C}_{159}\text{H}_{320}$  2228 g mol 169  $\text{C}_{160}\text{H}_{322}$  2242 g mol 170  $\text{C}_{161}\text{H}_{324}$  2256 g mol 171  $\text{C}_{162}\text{H}_{326}$  2270 g mol 172  $\text{C}_{163}\text{H}_{328}$  2284 g mol 173  $\text{C}_{164}\text{H}_{330}$  2298 g mol 174  $\text{C}_{165}\text{H}_{332}$  2312 g mol 175  $\text{C}_{166}\text{H}_{334}$  2326 g mol 176  $\text{C}_{167}\text{H}_{336}$  2340 g mol 177  $\text{C}_{168}\text{H}_{338}$  2354 g mol 178  $\text{C}_{169}\text{H}_{340}$  2368 g mol 179  $\text{C}_{170}\text{H}_{342}$  2382 g mol 180  $\text{C}_{171}\text{H}_{344}$  2396 g mol 181  $\text{C}_{172}\text{H}_{346}$  2410 g mol 182  $\text{C}_{173}\text{H}_{348}$  2424 g mol 183  $\text{C}_{174}\text{H}_{350}$  2438 g mol 184  $\text{C}_{175}\text{H}_{352}$  2452 g mol 185  $\text{C}_{176}\text{H}_{354}$  2466 g mol 186  $\text{C}_{177}\text{H}_{356}$  2480 g mol 187  $\text{C}_{178}\text{H}_{358}$  2494 g mol 188  $\text{C}_{179}\text{H}_{360}$  2508 g mol 189  $\text{C}_{180}\text{H}_{362}$  2522 g mol 190  $\text{C}_{181}\text{H}_{364}$  2536 g mol 191  $\text{C}_{182}\text{H}_{366}$  2550 g mol 192  $\text{C}_{183}\text{H}_{368}$  2564 g mol 193  $\text{C}_{184}\text{H}_{370}$  2578 g mol 194  $\text{C}_{185}\text{H}_{372}$  2592 g 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2886 g mol 216  $\text{C}_{207}\text{H}_{416}$  2900 g mol 217  $\text{C}_{208}\text{H}_{418}$  2914 g mol 218  $\text{C}_{209}\text{H}_{420}$  2928 g mol 219  $\text{C}_{210}\text{H}_{422}$  2942 g mol 220  $\text{C}_{211}\text{H}_{424}$  2956 g mol 221  $\text{C}_{212}\text{H}_{426}$  2970 g mol 222  $\text{C}_{213}\text{H}_{428}$  2984 g mol 223  $\text{C}_{214}\text{H}_{430}$  2998 g mol 224  $\text{C}_{215}\text{H}_{432}$  3012 g mol 225  $\text{C}_{216}\text{H}_{434}$  3026 g mol 226  $\text{C}_{217}\text{H}_{436}$  3040 g mol 227  $\text{C}_{218}\text{H}_{438}$  3054 g mol 228  $\text{C}_{219}\text{H}_{440}$  3068 g mol 229  $\text{C}_{220}\text{H}_{442}$  3082 g mol 230  $\text{C}_{221}\text{H}_{444}$  3096 g mol 231  $\text{C}_{222}\text{H}_{446}$  3110 g mol 232  $\text{C}_{223}\text{H}_{448}$  3124 g mol 233  $\text{C}_{224}\text{H}_{450}$  3138 g mol 234  $\text{C}_{225}\text{H}_{452}$  3152 g mol 235  $\text{C}_{226}\text{H}_{454}$  3166 g mol 236  $\text{C}_{227}\text{H}_{456}$  3180 g mol 237  $\text{C}_{228}\text{H}_{458}$  3194 g mol 238  $\text{C}_{229}\text{H}_{460}$  3208 g mol 239  $\text{C}_{230}\text{H}_{462}$  3222 g mol 240  $\text{C}_{231}\text{H}_{464}$  3236 g mol 241  $\text{C}_{232}\text{H}_{466}$  3250 g mol 242  $\text{C}_{233}\text{H}_{468}$  3264 g mol 243  $\text{C}_{234}\text{H}_{470}$  3278 g mol 244  $\text{C}_{235}\text{H}_{472}$  3292 g mol 245  $\text{C}_{236}\text{H}_{474}$  3306 g mol 246  $\text{C}_{237}\text{H}_{476}$  3320 g mol 247  $\text{C}_{238}\text{H}_{478}$  3334 g mol 248  $\text{C}_{239}\text{H}_{480}$  3348 g mol 249  $\text{C}_{240}\text{H}_{482}$  3362 g mol 250  $\text{C}_{241}\text{H}_{484}$  3376 g mol 251  $\text{C}_{242}\text{H}_{486}$  3390 g mol 252  $\text{C}_{243}\text{H}_{488}$  3404 g mol 253  $\text{C}_{244}\text{H}_{490}$  3418 g mol 254  $\text{C}_{245}\text{H}_{492}$  3432 g mol 255  $\text{C}_{246}\text{H}_{494}$  3446 g mol 256  $\text{C}_{247}\text{H}_{496}$  3460 g mol 257  $\text{C}_{248}\text{H}_{498}$  3474 g mol 258  $\text{C}_{249}\text{H}_{500}$  3488 g mol 259  $\text{C}_{250}\text{H}_{502}$  3502 g mol 260  $\text{C}_{251}\text{H}_{504}$  3516 g mol 261  $\text{C}_{252}\text{H}_{506}$  3530 g mol 262  $\text{C}_{253}\text{H}_{508}$  3544 g mol 263  $\text{C}_{254}\text{H}_{510}$  3558 g mol 264  $\text{C}_{255}\text{H}_{512}$  3572 g mol 265  $\text{C}_{256}\text{H}_{514}$  3586 g mol 266  $\text{C}_{257}\text{H}_{516}$  3600 g mol 267  $\text{C}_{258}\text{H}_{518}$  3614 g mol 268  $\text{C}_{259}\text{H}_{520}$  3628 g mol 269  $\text{C}_{260}\text{H}_{522}$  3642 g mol 270  $\text{C}_{261}\text{H}_{524}$  3656 g mol 271  $\text{C}_{262}\text{H}_{526}$  3670 g mol 272  $\text{C}_{263}\text{H}_{528}$  3684 g mol 273  $\text{C}_{264}\text{H}_{530}$  3698 g mol 274  $\text{C}_{265}\text{H}_{532}$  3712 g mol 275  $\text{C}_{266}\text{H}_{534}$  3726 g mol 276  $\text{C}_{267}\text{H}_{536}$  3740 g mol 277  $\text{C}_{268}\text{H}_{538}$  3754 g mol 278  $\text{C}_{269}\text{H}_{540}$  3768 g mol 279  $\text{C}_{270}\text{H}_{542}$  3782 g mol 280  $\text{C}_{271}\text{H}_{544}$  3796 g mol 281  $\text{C}_{272}\text{H}_{546}$  3810 g mol 282  $\text{C}_{273}\text{H}_{548}$  3824 g mol 283  $\text{C}_{274}\text{H}_{550}$  3838 g mol 284  $\text{C}_{275}\text{H}_{552}$  3852 g mol 285  $\text{C}_{276}\text{H}_{554}$  3866 g mol 286  $\text{C}_{277}\text{H}_{556}$  3880 g mol 287  $\text{C}_{278}\text{H}_{558}$  3894 g mol 288  $\text{C}_{279}\text{H}_{560}$  3908 g mol 289  $\text{C}_{280}\text{H}_{562}$  3922 g mol 290  $\text{C}_{281}\text{H}_{564}$  3936 g mol 291  $\text{C}_{282}\text{H}_{566}$  3950 g mol 292  $\text{C}_{283}\text{H}_{568}$  3964 g mol 293  $\text{C}_{284}\text{H}_{570}$  3978 g mol 294  $\text{C}_{285}\text{H}_{572}$  3992 g mol 295  $\text{C}_{286}\text{H}_{574}$  4006 g mol 296  $\text{C}_{287}\text{H}_{576}$  4020 g mol 297  $\text{C}_{288}\text{H}_{578}$  4034 g mol 298  $\text{C}_{289}\text{H}_{580}$  4048 g mol 299  $\text{C}_{290}\text{H}_{582}$  4062 g mol 300  $\text{C}_{291}\text{H}_{584}$  4076 g mol 301  $\text{C}_{292}\text{H}_{586}$  4090 g mol 302  $\text{C}_{293}\text{H}_{588}$  4104 g mol 303  $\text{C}_{294}\text{H}_{590}$  4118 g mol 304  $\text{C}_{295}\text{H}_{592}$  4132 g mol 305  $\text{C}_{296}\text{H}_{594}$  4146 g mol 306  $\text{C}_{297}\text{H}_{596}$  4160 g mol 307  $\text{C}_{298}\text{H}_{598}$  4174 g mol 308  $\text{C}_{299}\text{H}_{600}$  4188 g mol 309  $\text{C}_{300}\text{H}_{602}$  4202 g mol 310  $\text{C}_{301}\text{H}_{604}$  4216 g mol 311  $\text{C}_{302}\text{H}_{606}$  4230 g mol 312  $\text{C}_{303}\text{H}_{608}$  4244 g mol 313  $\text{C}_{304}\text{H}_{610}$  4258 g mol 314  $\text{C}_{305}\text{H}_{612}$  4272 g mol 315  $\text{C}_{306}\text{H}_{614}$  4286 g mol 316  $\text{C}_{307}\text{H}_{616}$  4300 g mol 317  $\text{C}_{308}\text{H}_{618}$  4314 g mol 318  $\text{C}_{309}\text{H}_{620}$  4328 g mol 319  $\text{C}_{310}\text{H}_{622}$  4342 g mol 320  $\text{C}_{311}\text{H}_{624}$  4356 g mol 321  $\text{C}_{312}\text{H}_{626}$  4370 g mol 322  $\text{C}_{313}\text{H}_{628}$  4384 g mol 323  $\text{C}_{314}\text{H}_{630}$  4398 g mol 324  $\text{C}_{315}\text{H}_{632}$  4412 g mol 325  $\text{C}_{316}\text{H}_{634}$  4426 g mol 326  $\text{C}_{317}\text{H}_{636}$  4440 g mol 327  $\text{C}_{318}\text{H}_{638}$  4454 g mol 328  $\text{C}_{319}\text{H}_{640}$  4468 g mol 329  $\text{C}_{320}\text{H}_{642}$  4482 g mol 330  $\text{C}_{321}\text{H}_{644}$  4496 g mol 331  $\text{C}_{322}\text{H}_{646}$  4510 g mol 332  $\text{C}_{323}\text{H}_{648}$  4524 g mol 333  $\text{C}_{324}\text{H}_{650}$  4538 g mol 334  $\text{C}_{325}\text{H}_{652}$  4552 g mol 335  $\text{C}_{326}\text{H}_{654}$  4566 g mol 336  $\text{C}_{327}\text{H}_{656}$  4580 g mol 337  $\text{C}_{328}\text{H}_{658}$  4594 g mol 338  $\text{C}_{329}\text{H}_{660}$  4608 g mol 339  $\text{C}_{330}\text{H}_{662}$  4622 g mol 340  $\text{C}_{331}\text{H}_{664}$  4636 g mol 341  $\text{C}_{332}\text{H}_{666}$  4650 g mol 342  $\text{C}_{333}\text{H}_{668}$  4664 g mol 343  $\text{C}_{334}\text{H}_{670}$  4678 g mol 344  $\text{C}_{335}\text{H}_{672}$  4692 g mol 345  $\text{C}_{336}\text{H}_{674}$  4706 g mol 346  $\text{C}_{337}\text{H}_{676}$  4720 g mol 347  $\text{C}_{338}\text{H}_{678}$  4734 g mol 348  $\text{C}_{339}\text{H}_{680}$  4748 g mol 349  $\text{C}_{340}\text{H}_{682}$  4762 g mol 350  $\text{C}_{341}\text{H}_{684}$  4776 g mol 351  $\text{C}_{342}\text{H}_{686}$  4790 g mol 352  $\text{C}_{343}\text{H}_{688}$  4804 g mol 353  $\text{C}_{344}\text{H}_{690}$  4818 g mol 354  $\text{C}_{345}\text{H}_{692}$  4832 g mol 355  $\text{C}_{346}\text{H}_{694}$  4846 g mol 356  $\text{C}_{347}\text{H}_{696}$  4860 g mol 357  $\text{C}_{348}\text{H}_{698}$  4874 g mol 358  $\text{C}_{349}\text{H}_{700}$  4888 g mol 359  $\text{C}_{350}\text{H}_{702}$  4902 g mol 360  $\text{C}_{351}\text{H}_{704}$  4916 g mol 361  $\text{C}_{352}\text{H}_{706}$  4930 g mol 362  $\text{C}_{353}\text{H}_{708}$  4944 g mol 363  $\text$



into mass units or conversely mass units into mole units we established that 1 mol of al has a mass of 26 98 g example 6 2 1 stated mathematically 1 mol al 26 98 g al

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