



THIRD EDITION
**RELIABILITY
ENGINEERING AND
RISK ANALYSIS**
A Practical Guide

SOLUTIONS

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Reliability Engineering And Risk Analysis Solutions

Harish Garg, Mangey Ram



Reliability Engineering And Risk Analysis Solutions :

Reliability Engineering and Risk Analysis Mohammad Modarres, Mark P. Kaminskiy, Vasiliy Krivtsov, 2009-09-22 Tools to Proactively Predict Failure The prediction of failures involves uncertainty and problems associated with failures are inherently probabilistic Their solution requires optimal tools to analyze strength of evidence and understand failure events and processes to gauge confidence in a design s reliability Reliability Engineering and Risk Analysis A Practical Guide Second Edition has already introduced a generation of engineers to the practical methods and techniques used in reliability and risk studies applicable to numerous disciplines Written for both practicing professionals and engineering students this comprehensive overview of reliability and risk analysis techniques has been fully updated expanded and revised to meet current needs It concentrates on reliability analysis of complex systems and their components and also presents basic risk analysis techniques Since reliability analysis is a multi disciplinary subject the scope of this book applies to most engineering disciplines and its content is primarily based on the materials used in undergraduate and graduate level courses at the University of Maryland This book has greatly benefited from its authors industrial experience It balances a mixture of basic theory and applications and presents a large number of examples to illustrate various technical subjects A proven educational tool this bestselling classic will serve anyone working on real life failure analysis and prediction problems Basics of Reliability and Risk Analysis Piero Baraldi, 2004

Reliability Engineering and Risk Analysis Mohammad Modarres, Mark P. Kaminskiy, Vasiliy Krivtsov, 2016-11-25 This undergraduate and graduate textbook provides a practical and comprehensive overview of reliability and risk analysis techniques Written for engineering students and practicing engineers the book is multi disciplinary in scope The new edition has new topics in classical confidence interval estimation Bayesian uncertainty analysis models for physics of failure approach to life estimation extended discussions on the generalized renewal process and optimal maintenance and further modifications updates and discussions The book includes examples to clarify technical subjects and many end of chapter exercises PowerPoint slides and a Solutions Manual are also available

Reliability and Risk Analysis Mohammad Modarres, Katrina Groth, 2023-04-26 Completely updated for a new edition this book introduces reliability and risks analysis for both practicing engineers and engineering students at the undergraduate and graduate levels Since reliability analysis is a multidisciplinary subject this book draws together a wide range of topics and presents them in a way that applies to most engineering disciplines Reliability and Risk Analysis Second Edition emphasizes an introduction and explanation of the practical methods used in reliability and risk studies with a discussion of their uses and limitations It offers basic and advanced methods in reliability analysis that are commonly used in daily practice and provides methods that address unique topics such as dependent failure analysis importance analysis and analysis of repairable systems The book goes on to present a comprehensive overview of modern probabilistic life assessment methods such as Bayesian estimation system reliability analysis and human reliability End of chapter problems and a

solutions manual are available to support any course adoptions This book is refined simple and focuses on fundamentals The audience is the beginner with no background in reliability engineering and rudimentary knowledge of probability and statistics It can be used by new practitioners undergraduates and first year graduate students

Computational Methods For Reliability And Risk Analysis Enrico Zio,2009-01-22 This book illustrates a number of modelling and computational techniques for addressing relevant issues in reliability and risk analysis In particular it provides i a basic illustration of some methods used in reliability and risk analysis for modelling the stochastic failure and repair behaviour of systems e g the Markov and Monte Carlo simulation methods ii an introduction to Genetic Algorithms tailored to their application for RAMS Reliability Availability Maintainability and Safety optimization iii an introduction to key issues of system reliability and risk analysis like dependent failures and importance measures and iv a presentation of the issue of uncertainty and of the techniques of sensitivity and uncertainty analysis used in support of reliability and risk analysis The book provides a technical basis for senior undergraduate or graduate courses and a reference for researchers and practitioners in the field of reliability and risk analysis Several practical examples are included to demonstrate the application of the concepts and techniques in practice

Reliability Engineering and Risk Assessment Ernest J. Henley,Hiromitsu Kumamoto,1981

What Every Engineer Should Know about Reliability and Risk Analysis MOHAMMAD. MODARRES,2023

Probabilistic Risk Assessment Ernest J. Henley,Hiromitsu Kumamoto,1992

Reliability and Risk Analysis in Engineering and Medicine Chandrasekhar Putcha,Subhrajit Dutta,Sanjay K. Gupta,2021-11-19 This graduate textbook imparts the fundamentals of reliability and risk that can be connected mathematically and applied to problems in engineering and medical science and practice The book is divided into eight chapters the first three of which deal with basic fundamentals of probability theory and reliability methods The fourth chapter illustrates simulation methods needed to solve complex problems Chapters 5 7 explain reliability codes and system reliability which uses the component reliabilities discussed in previous chapters The book concludes in chapter 8 with an examination of applications of reliability within engineering and medical fields Presenting a highly relevant competency for graduates entering product research and development or facilities operations sectors this text includes many examples and end of chapter study questions to maximize student comprehension Explains concepts of reliability and risk estimation techniques in the context of medicine and engineering Elucidates the interplay between reliability and risk from design to operation phases Uses real world examples from engineering structures and medical devices and protocols Adopts a lucid yet rigorous presentation of reliability and risk calculations Reinforces students understanding of concepts covered with end of chapter exercises

Reliability and Safety Engineering Ajit Kumar Verma,Srividya Ajit,Durga Rao Karanki,2010-08-09 Reliability and safety are core issues that must be addressed throughout the life cycle of engineering systems Reliability and Safety Engineering presents an overview of the basic concepts together with simple and practical illustrations The authors present reliability terminology in various engineering fields viz electronics

engineering software engineering mechanical engineering structural engineering and power systems engineering They describe the latest applications in the area of probabilistic safety assessment such as technical specification optimization risk monitoring and risk informed in service inspection Reliability and safety studies must inevitably deal with uncertainty so the book includes uncertainty propagation methods Monte Carlo simulation fuzzy arithmetic Dempster Shafer theory and probability bounds Reliability and Safety Engineering also highlights advances in system reliability and safety assessment including dynamic system modeling and uncertainty management Case studies from typical nuclear power plants as well as from structural software and electronic systems are also discussed Reliability and Safety Engineering combines discussions of the existing literature on basic concepts and applications with state of the art methods used in reliability and risk assessment of engineering systems It is designed to assist practicing engineers students and researchers in the areas of reliability engineering and risk analysis

Engineering Reliability and Risk Assessment Harish Garg, Mangey Ram, 2022-09-23 Engineering Reliability and Risk Assessment explains how to improve the performance of a system using the latest risk and reliability models Against a backdrop of increasing availability of industrial data and ever increasing global commercial competition the standards for optimal efficiency with minimum hazards keep improving Topics explained include Effective strategies for the maintenance of the mechanical components of a system How to schedule necessary interventions throughout the product life cycle How to understand the structure and cost of complex systems Planning a schedule to improve the reliability and life of the system software system safety and risk informed asset management and more Uses case studies from industry practice to explain innovative solutions to real world risk assessment problems Addresses the full interdisciplinary range of topics that influence this complex field Provides brief introductions to important concepts including risk and reliability analysis and fuzzy reliability

Smart Grid as a Solution for Renewable and Efficient Energy Ahmad, Ayaz, Hassan, Naveed Ul, 2016-04-20 As the need for proficient power resources continues to grow it is becoming increasingly important to implement new strategies and technologies in energy distribution to meet consumption needs The employment of smart grid networks assists in the efficient allocation of energy resources Smart Grid as a Solution for Renewable and Efficient Energy features emergent research and trends in energy consumption and management as well as communication techniques utilized to monitor power transmission and usage Emphasizing developments and challenges occurring in the field this book is a critical resource for researchers and students concerned with signal processing power demand management energy storage procedures and control techniques within smart grid networks

Comparative Risk Assessment and Environmental Decision Making Igor Linkov, Abou Bakr Ramadan, 2006-03-02 Decision making in environmental projects is typically a complex and confusing process characterized by trade offs between socio political environmental and economic impacts Comparative Risk Assessment CRA is a methodology applied to facilitate decision making when various activities compete for limited resources CRA has become an increasingly accepted research tool and

has helped to characterize environmental profiles and priorities on the regional and national level CRA may be considered as part of the more general but as yet quite academic field of multi criteria decision analysis MCDA Considerable research in the area of MCDA has made available methods for applying scientific decision theoretical approaches to multi criteria problems but its applications especially in environmental areas are still limited The papers show that the use of comparative risk assessment can provide the scientific basis for environmentally sound and cost efficient policies strategies and solutions to our environmental challenges

Energy Research Abstracts ,1979 **Reliability Engineering and Risk Analysis** Mohammad Modarres,2009 *Applied Reliability Engineering and Risk Analysis* Ilia B. Frenkel,Alex Karagrigoriou,Anatoly Lisnianski,Andre V. Kleyner,2013-08-22 This complete resource on the theory and applications of reliability engineering probabilistic models and risk analysis consolidates all the latest research presenting the most up to date developments in this field With comprehensive coverage of the theoretical and practical issues of both classic and modern topics it also provides a unique commemoration to the centennial of the birth of Boris Gnedenko one of the most prominent reliability scientists of the twentieth century Key features include expert treatment of probabilistic models and statistical inference from leading scientists researchers and practitioners in their respective reliability fields detailed coverage of multi state system reliability maintenance models statistical inference in reliability systemability physics of failures and reliability demonstration many examples and engineering case studies to illustrate the theoretical results and their practical applications in industry Applied Reliability Engineering and Risk Analysis is one of the first works to treat the important areas of degradation analysis multi state system reliability networks and large scale systems in one comprehensive volume It is an essential reference for engineers and scientists involved in reliability analysis applied probability and statistics reliability engineering and maintenance logistics and quality control It is also a useful resource for graduate students specialising in reliability analysis and applied probability and statistics Dedicated to the Centennial of the birth of Boris Gnedenko renowned Russian mathematician and reliability theorist **Reliability Engineering and Risk Analysis** Mohammad Modarres,1999 Probabilistic Risk Assessment ,2000 Contains references to documents in the NASA Scientific and Technical STI Database **4th International Conference on Performance-Based Codes and Fire Safety Design Methods** ,2002 Research based reports on fire safety engineering and design of buildings and other structures **Encyclopedia of Quantitative Risk Analysis and Assessment: R-Z** Edward L. Melnick,Brian Everitt,2008

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web algebra formulas for class 8 here is the list of class 8 algebra formula $a^2 - b^2 = (a + b)(a - b)$ $a^2 + 2ab + b^2 = (a + b)^2$ $a^2 - 2ab + b^2 = (a - b)^2$ $(a + b)^2 = a^2 + 2ab + b^2$ $(a - b)^2 = a^2 - 2ab + b^2$ $(a + b)(a - b) = a^2 - b^2$ $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$ $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$ $(a + b)^2 - (a - b)^2 = 4ab$ $(a + b)^3 - (a - b)^3 = 2(a^2 + ab + b^2)(a + b)$ $(a + b)^3 + (a - b)^3 = 2(a^2 - ab + b^2)(a + b)$ $(a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$ $(a - b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$ $(a + b)^4 - (a - b)^4 = 8ab(a^2 + b^2)$ $(a + b)^4 + (a - b)^4 = 2(a^4 + 6a^2b^2 + b^4)$ $(a + b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$ $(a - b)^5 = a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5$ $(a + b)^5 - (a - b)^5 = 10ab(a^3 + b^3)$ $(a + b)^5 + (a - b)^5 = 2(a^5 + 5a^2b^3 + b^5)$ $(a + b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$ $(a - b)^6 = a^6 - 6a^5b + 15a^4b^2 - 20a^3b^3 + 15a^2b^4 - 6ab^5 + b^6$ $(a + b)^6 - (a - b)^6 = 12ab(a^4 + 2a^2b^2 + b^4)$ $(a + b)^6 + (a - b)^6 = 2(a^6 + 6a^3b^3 + b^6)$ $(a + b)^7 = a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7$ $(a - b)^7 = a^7 - 7a^6b + 21a^5b^2 - 35a^4b^3 + 35a^3b^4 - 21a^2b^5 + 7ab^6 - b^7$ $(a + b)^7 - (a - b)^7 = 14ab(a^5 + 3a^2b^3 + b^5)$ $(a + b)^7 + (a - b)^7 = 2(a^7 + 7a^4b^3 + 7a^2b^5 + b^7)$ $(a + b)^8 = a^8 + 8a^7b + 28a^6b^2 + 56a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6 + ab^7 + b^8$ $(a - b)^8 = a^8 - 8a^7b + 28a^6b^2 - 56a^5b^3 + 56a^4b^4 - 28a^3b^5 + 8a^2b^6 - ab^7 + b^8$ $(a + b)^8 - (a - b)^8 = 16ab(a^6 + 4a^3b^3 + b^6)$ $(a + b)^8 + (a - b)^8 = 2(a^8 + 8a^5b^3 + 14a^2b^6 + b^8)$ $(a + b)^9 = a^9 + 9a^8b + 36a^7b^2 + 84a^6b^3 + 126a^5b^4 + 126a^4b^5 + 84a^3b^6 + 36a^2b^7 + 9ab^8 + b^9$ $(a - b)^9 = a^9 - 9a^8b + 36a^7b^2 - 84a^6b^3 + 126a^5b^4 - 126a^4b^5 + 84a^3b^6 - 36a^2b^7 + 9ab^8 - b^9$ $(a + b)^9 - (a - b)^9 = 18ab(a^7 + 3a^4b^3 + 3a^2b^5 + b^7)$ $(a + b)^9 + (a - b)^9 = 2(a^9 + 9a^6b^3 + 18a^3b^6 + b^9)$ $(a + b)^{10} = a^{10} + 10a^9b + 45a^8b^2 + 120a^7b^3 + 210a^6b^4 + 252a^5b^5 + 210a^4b^6 + 120a^3b^7 + 45a^2b^8 + 10ab^9 + b^{10}$ $(a - b)^{10} = a^{10} - 10a^9b + 45a^8b^2 - 120a^7b^3 + 210a^6b^4 - 252a^5b^5 + 210a^4b^6 - 120a^3b^7 + 45a^2b^8 - 10ab^9 + b^{10}$ $(a + b)^{10} - (a - b)^{10} = 20ab(a^8 + 4a^5b^3 + 6a^2b^6 + b^8)$ $(a + b)^{10} + (a - b)^{10} = 2(a^{10} + 10a^7b^3 + 35a^4b^6 + b^{10})$ $(a + b)^{11} = a^{11} + 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 330a^7b^4 + 462a^6b^5 + 462a^5b^6 + 330a^4b^7 + 165a^3b^8 + 55a^2b^9 + 11ab^{10} + b^{11}$ $(a - b)^{11} = a^{11} - 11a^{10}b + 55a^9b^2 - 165a^8b^3 + 330a^7b^4 - 462a^6b^5 + 462a^5b^6 - 330a^4b^7 + 165a^3b^8 - 55a^2b^9 + 11ab^{10} - b^{11}$ $(a + b)^{11} - (a - b)^{11} = 22ab(a^9 + 3a^6b^3 + 3a^3b^6 + b^8)$ $(a + b)^{11} + (a - b)^{11} = 2(a^{11} + 11a^8b^3 + 33a^5b^6 + b^{11})$ $(a + b)^{12} = a^{12} + 12a^{11}b + 66a^{10}b^2 + 220a^9b^3 + 495a^8b^4 + 792a^7b^5 + 924a^6b^6 + 792a^5b^7 + 495a^4b^8 + 220a^3b^9 + 66a^2b^{10} + 12ab^{11} + b^{12}$ $(a - b)^{12} = a^{12} - 12a^{11}b + 66a^{10}b^2 - 220a^9b^3 + 495a^8b^4 - 792a^7b^5 + 924a^6b^6 - 792a^5b^7 + 495a^4b^8 - 220a^3b^9 + 66a^2b^{10} - 12ab^{11} + b^{12}$ $(a + b)^{12} - (a - b)^{12} = 24ab(a^{10} + 4a^7b^3 + 6a^4b^6 + b^8)$ $(a + b)^{12} + (a - b)^{12} = 2(a^{12} + 12a^9b^3 + 66a^6b^6 + b^{12})$ $(a + b)^{13} = a^{13} + 13a^{12}b + 78a^{11}b^2 + 286a^{10}b^3 + 715a^9b^4 + 1430a^8b^5 + 2002a^7b^6 + 2002a^6b^7 + 1430a^5b^8 + 715a^4b^9 + 286a^3b^{10} + 78a^2b^{11} + 13ab^{12} + b^{13}$ $(a - b)^{13} = a^{13} - 13a^{12}b + 78a^{11}b^2 - 286a^{10}b^3 + 715a^9b^4 - 1430a^8b^5 + 2002a^7b^6 - 2002a^6b^7 + 1430a^5b^8 - 715a^4b^9 + 286a^3b^{10} - 78a^2b^{11} + 13ab^{12} - b^{13}$ $(a + b)^{13} - (a - b)^{13} = 26ab(a^{11} + 3a^8b^3 + 3a^5b^6 + b^8)$ $(a + b)^{13} + (a - b)^{13} = 2(a^{13} + 13a^{10}b^3 + 78a^7b^6 + b^{13})$ $(a + b)^{14} = a^{14} + 14a^{13}b + 91a^{12}b^2 + 364a^{11}b^3 + 1001a^{10}b^4 + 2002a^9b^5 + 3003a^8b^6 + 3003a^7b^7 + 2002a^6b^8 + 1001a^5b^9 + 364a^4b^{10} + 91a^3b^{11} + 14a^2b^{12} + 14ab^{13} + b^{14}$ $(a - b)^{14} = a^{14} - 14a^{13}b + 91a^{12}b^2 - 364a^{11}b^3 + 1001a^{10}b^4 - 2002a^9b^5 + 3003a^8b^6 - 3003a^7b^7 + 2002a^6b^8 - 1001a^5b^9 + 364a^4b^{10} - 91a^3b^{11} + 14a^2b^{12} - 14ab^{13} + b^{14}$ $(a + b)^{14} - (a - b)^{14} = 28ab(a^{12} + 4a^9b^3 + 6a^6b^6 + b^8)$ $(a + b)^{14} + (a - b)^{14} = 2(a^{14} + 14a^{11}b^3 + 105a^8b^6 + b^{14})$ $(a + b)^{15} = a^{15} + 15a^{14}b + 105a^{13}b^2 + 455a^{12}b^3 + 1365a^{11}b^4 + 3003a^{10}b^5 + 5005a^9b^6 + 5005a^8b^7 + 3003a^7b^8 + 1365a^6b^9 + 455a^5b^{10} + 105a^4b^{11} + 15a^3b^{12} + 15a^2b^{13} + 15ab^{14} + b^{15}$ $(a - b)^{15} = a^{15} - 15a^{14}b + 105a^{13}b^2 - 455a^{12}b^3 + 1365a^{11}b^4 - 3003a^{10}b^5 + 5005a^9b^6 - 5005a^8b^7 + 3003a^7b^8 - 1365a^6b^9 + 455a^5b^{10} - 105a^4b^{11} + 15a^3b^{12} - 15a^2b^{13} + 15ab^{14} - b^{15}$ $(a + b)^{15} - (a - b)^{15} = 30ab(a^{13} + 3a^{10}b^3 + 3a^7b^6 + b^8)$ $(a + b)^{15} + (a - b)^{15} = 2(a^{15} + 15a^{12}b^3 + 105a^9b^6 + b^{15})$ $(a + b)^{16} = a^{16} + 16a^{15}b + 120a^{14}b^2 + 680a^{13}b^3 + 2380a^{12}b^4 + 5428a^{11}b^5 + 9240a^{10}b^6 + 11440a^9b^7 + 11440a^8b^8 + 9240a^7b^9 + 680a^6b^{10} + 2380a^5b^{11} + 680a^4b^{12} + 120a^3b^{13} + 16a^2b^{14} + 16ab^{15} + b^{16}$ $(a - b)^{16} = a^{16} - 16a^{15}b + 120a^{14}b^2 - 680a^{13}b^3 + 2380a^{12}b^4 - 5428a^{11}b^5 + 9240a^{10}b^6 - 11440a^9b^7 + 11440a^8b^8 - 9240a^7b^9 + 680a^6b^{10} - 2380a^5b^{11} + 680a^4b^{12} - 120a^3b^{13} + 16a^2b^{14} - 16ab^{15} + b^{16}$ $(a + b)^{16} - (a - b)^{16} = 32ab(a^{14} + 4a^{11}b^3 + 6a^8b^6 + b^8)$ $(a + b)^{16} + (a - b)^{16} = 2(a^{16} + 16a^{13}b^3 + 120a^{10}b^6 + b^{16})$ $(a + b)^{17} = a^{17} + 17a^{16}b + 136a^{15}b^2 + 850a^{14}b^3 + 3570a^{13}b^4 + 10010a^{12}b^5 + 22314a^{11}b^6 + 37700a^{10}b^7 + 48620a^9b^8 + 48620a^8b^9 + 37700a^7b^{10} + 22314a^6b^{11} + 10010a^5b^{12} + 3570a^4b^{13} + 850a^3b^{14} + 136a^2b^{15} + 17ab^{16} + b^{17}$ $(a - b)^{17} = a^{17} - 17a^{16}b + 136a^{15}b^2 - 850a^{14}b^3 + 3570a^{13}b^4 - 10010a^{12}b^5 + 22314a^{11}b^6 - 37700a^{10}b^7 + 48620a^9b^8 - 48620a^8b^9 + 37700a^7b^{10} - 22314a^6b^{11} + 10010a^5b^{12} - 3570a^4b^{13} + 850a^3b^{14} - 136a^2b^{15} + 17ab^{16} - b^{17}$ $(a + b)^{17} - (a - b)^{17} = 34ab(a^{15} + 3a^{12}b^3 + 3a^9b^6 + b^8)$ $(a + b)^{17} + (a - b)^{17} = 2(a^{17} + 17a^{14}b^3 + 136a^{11}b^6 + b^{17})$ $(a + b)^{18} = a^{18} + 18a^{17}b + 153a^{16}b^2 + 1020a^{15}b^3 + 5428a^{14}b^4 + 23800a^{13}b^5 + 71544a^{12}b^6 + 167970a^{11}b^7 + 331960a^{10}b^8 + 500500a^9b^9 + 500500a^8b^{10} + 331960a^7b^{11} + 167970a^6b^{12} + 71544a^5b^{13} + 23800a^4b^{14} + 1020a^3b^{15} + 153a^2b^{16} + 18ab^{17} + b^{18}$ $(a - b)^{18} = a^{18} - 18a^{17}b + 153a^{16}b^2 - 1020a^{15}b^3 + 5428a^{14}b^4 - 23800a^{13}b^5 + 71544a^{12}b^6 - 167970a^{11}b^7 + 331960a^{10}b^8 - 500500a^9b^9 + 500500a^8b^{10} - 331960a^7b^{11} + 167970a^6b^{12} - 71544a^5b^{13} + 23800a^4b^{14} - 1020a^3b^{15} + 153a^2b^{16} - 18ab^{17} + b^{18}$ $(a + b)^{18} - (a - b)^{18} = 36ab(a^{16} + 4a^{13}b^3 + 6a^{10}b^6 + b^8)$ $(a + b)^{18} + (a - b)^{18} = 2(a^{18} + 18a^{15}b^3 + 153a^{12}b^6 + b^{18})$ $(a + b)^{19} = a^{19} + 19a^{18}b + 171a^{17}b^2 + 1224a^{16}b^3 + 7428a^{15}b^4 + 37734a^{14}b^5 + 167970a^{13}b^6 + 500500a^{12}b^7 + 1144000a^{11}b^8 + 2162160a^{10}b^9 + 3319600a^9b^{10} + 3319600a^8b^{11} + 2162160a^7b^{12} + 1144000a^6b^{13} + 500500a^5b^{14} + 167970a^4b^{15} + 7428a^3b^{16} + 1224a^2b^{17} + 19ab^{18} + b^{19}$ $(a - b)^{19} = a^{19} - 19a^{18}b + 171a^{17}b^2 - 1224a^{16}b^3 + 7428a^{15}b^4 - 37734a^{14}b^5 + 167970a^{13}b^6 - 500500a^{12}b^7 + 1144000a^{11}b^8 - 2162160a^{10}b^9 + 3319600a^9b^{10} - 3319600a^8b^{11} + 2162160a^7b^{12} - 1144000a^6b^{13} + 500500a^5b^{14} - 167970a^4b^{15} + 7428a^3b^{16} - 1224a^2b^{17} + 19ab^{18} - b^{19}$ $(a + b)^{19} - (a - b)^{19} = 38ab(a^{17} + 3a^{14}b^3 + 3a^{11}b^6 + b^8)$ $(a + b)^{19} + (a - b)^{19} = 2(a^{19} + 19a^{16}b^3 + 171a^{13}b^6 + b^{19})$ $(a + b)^{20} = a^{20} + 20a^{19}b + 180a^{18}b^2 + 1360a^{17}b^3 + 8500a^{16}b^4 + 45420a^{15}b^5 + 200200a^{14}b^6 + 715440a^{13}b^7 + 2002000a^{12}b^8 + 4542000a^{11}b^9 + 8500000a^{10}b^{10} + 13600000a^9b^{11} + 13600000a^8b^{12} + 8500000a^7b^{13} + 4542000a^6b^{14} + 2002000a^5b^{15} + 715440a^4b^{16} + 200200a^3b^{17} + 1360a^2b^{18} + 20ab^{19} + b^{20}$ $(a - b)^{20} = a^{20} - 20a^{19}b + 180a^{18}b^2 - 1360a^{17}b^3 + 8500a^{16}b^4 - 45420a^{15}b^5 + 200200a^{14}b^6 - 715440a^{13}b^7 + 2002000a^{12}b^8 - 4542000a^{11}b^9 + 8500000a^{10}b^{10} - 13600000a^9b^{11} + 13600000a^8b^{12} - 8500000a^7b^{13} + 4542000a^6b^{14} - 2002000a^5b^{15} + 715440a^4b^{16} - 200200a^3b^{17} + 1360a^2b^{18} - 20ab^{19} + b^{20}$ $(a + b)^{20} - (a - b)^{20} = 40ab(a^{18} + 4a^{15}b^3 + 6a^{12}b^6 + b^8)$ $(a + b)^{20} + (a - b)^{20} = 2(a^{20} + 20a^{17}b^3 + 180a^{14}b^6 + b^{20})$ $(a + b)^{21} = a^{21} + 21a^{20}b + 210a^{19}b^2 + 1638a^{18}b^3 + 10010a^{17}b^4 + 50050a^{16}b^5 + 200200a^{15}b^6 + 680060a^{14}b^7 + 1871040a^{13}b^8 + 4005000a^{12}b^9 + 7654560a^{11}b^{10} + 12870000a^{10}b^{11} + 16797000a^9b^{12} + 16797000a^8b^{13} + 12870000a^7b^{14} + 7654560a^6b^{15} + 4005000a^5b^{16} + 1871040a^4b^{17} + 680060a^3b^{18} + 200200a^2b^{19} + 21ab^{20} + b^{21}$ $(a - b)^{21} = a^{21} - 21a^{20}b + 210a^{19}b^2 - 1638a^{18}b^3 + 10010a^{17}b^4 - 50050a^{16}b^5 + 200200a^{15}b^6 - 680060a^{14}b^7 + 1871040a^{13}b^8 - 4005000a^{12}b^9 + 7654560a^{11}b^{10} - 12870000a^{10}b^{11} + 16797000a^9b^{12} - 16797000a^8b^{13} + 12870000a^7b^{14} - 7654560a^6b^{15} + 4005000a^5b^{16} - 1871040a^4b^{17} + 680060a^3b^{18} - 200200a^2b^{19} + 21ab^{20} - b^{21}$ $(a + b)^{21} - (a - b)^{21} = 42ab(a^{19} + 3a^{16}b^3 + 3a^{13}b^6 + b^8)$ $(a + b)^{21} + (a - b)^{21} = 2(a^{21} + 21a^{18}b^3 + 210a^{15}b^6 + b^{21})$ $(a + b)^{22} = a^{22} + 22a^{21}b + 231a^{20}b^2 + 1848a^{19}b^3 + 11440a^{18}b^4 + 57200a^{17}b^5 + 254250a^{16}b^6 + 924000a^{15}b^7 + 2824800a^{14}b^8 + 7154400a^{13}b^9 + 16797000a^{12}b^{10} + 33196000a^{11}b^{11} + 50050000a^{10}b^{12} + 68006000a^9b^{13} + 85000000a^8b^{14} + 85000000a^7b^{15} + 68006000a^6b^{16} + 50050000a^5b^{17} + 33196000a^4b^{18} + 2824800a^3b^{19} + 11440a^2b^{20} + 22ab^{21} + b^{22}$ $(a - b)^{22} = a^{22} - 22a^{21}b + 231a^{20}b^2 - 1848a^{19}b^3 + 11440a^{18}b^4 - 57200a^{17}b^5 + 254250a^{16}b^6 - 924000a^{15}b^7 + 2824800a^{14}b^8 - 7154400a^{13}b^9 + 16797000a^{12}b^{10} - 33196000a^{11}b^{11} + 50050000a^{10}b^{12} - 68006000a^9b^{13} + 85000000a^8b^{14} - 85000000a^7b^{15} + 68006000a^6b^{16} - 50050000a^5b^{17} + 33196000a^4b^{18} - 2824800a^3b^{19} + 11440a^2b^{20} - 22ab^{21} + b^{22}$ $(a + b)^{22} - (a - b)^{22} = 44ab(a^{20} + 4a^{17}b^3 + 6a^{14}b^6 + b^8)$ $(a + b)^{22} + (a - b)^{22} = 2(a^{22} + 22a^{19}b^3 + 231a^{16}b^6 + b^{22})$ $(a + b)^{23} = a^{23} + 23a^{22}b + 253a^{21}b^2 + 1914a^{20}b^3 + 12240a^{19}b^4 + 64350a^{18}b^5 + 298200a^{17}b^6 + 1144000a^{16}b^7 + 3773400a^{15}b^8 + 10010000a^{14}b^9 + 23800000a^{13}b^{10} + 48620000a^{12}b^{11} + 85000000a^{11}b^{12} + 128700000a^{10}b^{13} + 167970000a^9b^{14} + 167970000a^8b^{15} + 128700000a^7b^{16} + 85000000a^6b^{17} + 48620000a^5b^{18} + 23800000a^4b^{19} + 1144000a^3b^{20} + 3773400a^2b^{21} + 298200a^2b^{22} + 23ab^{23} + b^{23}$ $(a - b)^{23} = a^{23} - 23a^{22}b + 253a^{21}b^2 - 1914a^{20}b^3 + 12240a^{19}b^4 - 64350a^{18}b^5 + 298200a^{17}b^6 - 1144000a^{16}b^7 + 3773400a^{15}b^8 - 10010000a^{14}b^9 + 23800000a^{13}b^{10} - 48620000a^{12}b^{11} + 85000000a^{11}b^{12} - 128700000a^{10}b^{13} + 167970000a^9b^{14} - 167970000a^8b^{15} + 128700000a^7b^{16} - 85000000a^6b^{17} + 48620000a^5b^{18} - 23800000a^4b^{19} + 1144000a^3b^{20} - 3773400a^2b^{21} + 298200a^2b^{22} - 23ab^{23} + b^{23}$ $(a + b)^{23} - (a - b)^{23} = 46ab(a^{21} + 3a^{18}b^3 + 3a^{15}b^6 + b^8)$ $(a + b)^{23} + (a - b)^{23} = 2(a^{23} + 23a^{20}b^3 + 253a^{17}b^6 + b^{23})$ $(a + b)^{24} = a^{24} + 24a^{23}b + 276a^{22}b^2 + 2016a^{21}b^3 + 13056a^{20}b^4 + 74280a^{19}b^5 + 357360a^{18}b^6 + 1430064a^{17}b^7 + 4542000a^{16}b^8 + 11440000a^{15}b^9 + 25425000a^{14}b^{10} + 50050000a^{13}b^{11} + 85000000a^{12}b^{12} + 128700000a^{11}b^{13} + 167970000a^{10}b^{14} + 167970000a^9b^{15} + 128700000a^8b^{16} + 85000000a^7b^{17} + 50050000a^6b^{18} + 25425000a^5b^{19} + 11440000a^4b^{20} + 4542000a^3b^{21} + 1430064a^2b^{22} + 357360a^2b^{23} + 2016a^2b^{24} + 24ab^{25} + b^{24}$ $(a - b)^{24} = a^{24} - 24a^{23}b + 276a^{22}b^2 - 2016a^{21}b^3 + 13056a^{20}b^4 - 74280a^{19}b^5 + 357360a^{18}b^6 - 1430064a^{17}b^7 + 4542000a^{16}b^8 - 11440000a^{15}b^9 + 25425000a^{14}b^{10} - 50050000a^{13}b^{11} + 85000000a^{12}b^{12} - 128700000a^{11}b^{13} + 167970000a^{10}b^{14} - 167970000a^9b^{15} + 128700000a^8b^{16} - 85000000a^7b^{17} + 50050000a^6b^{18} - 25425000a^5b^{19} + 11440000a^4b^{20} - 4542000a^3b^{21} + 1430064a^2b^{22} - 357360a^2b^{23} + 2016a^2b^{24} - 24ab^{25} + b^{24}$ $(a + b)^{24} - (a - b)^{24} = 48ab(a^{22} + 4a^{19}b^3 + 6a^{16}b^6 + b^8)$ $(a + b)^{24} + (a - b)^{24} = 2(a^{24} + 24a^{21}b^3 + 276a^{18}b^6 + b^{24})$ $(a + b)^{25} = a^{25} + 25a^{24}b + 299a^{23}b^2 + 2100a^{22}b^3 + 13650a^{21}b^4 + 78540a^{20}b^5 + 400500a^{19}b^6 + 1716000a^{18}b^7 + 5720000a^{17}b^8 + 15428400a^{16}b^9 + 37734000a^{15}b^{10} + 85000000a^{14}b^{11} + 167970000a^{13}b^{12} + 282480000a^{12}b^{13} + 400500000a^{11}b^{14} + 500500000a^{10}b^{15} + 500500000a^9b^{16} + 400500000a^8b^{17} + 282480000a^7b^{18} + 167970000a^6b^{19} + 85000000a^5b^{20} + 37734000a^4b^{21} + 15428400a^3b^{22} + 5720000a^2b^{23} + 2100a^2b^{24} + 299a^2b^{25} + 25ab^{26} + b^{25}$ $(a - b)^{25} = a^{25} - 25a^{24}b + 299a^{23}b^2 - 2100a^{22}b^3 + 13650a^{21}b^4 - 78540a^{20}b^5 + 400500a^{19}b^6 - 1716000a^{18}b^7 + 5720000a^{17}b^8 - 15428400a^{16}b^9 + 37734000a^{15}b^{10} - 85000000a^{14}b^{11} + 167970000a^{13}b^{12} - 282480000a^{12}b^{13} + 400500000a^{11}b^{14} - 500500000a^{10}b^{15} + 500500000a^9b^{16} - 400500000a^8b^{17} + 282480000a^7b^{18} - 167970000a^6b^{19} + 85000000a^5b^{20} - 37734000a^4b^{21} + 15428400a^3b^{22} - 5720000a^2b^{23} + 2100a^2b^{24} - 299a^2b^{25} + 25ab^{26} - b^{25}$ $(a + b)^{25} - (a - b)^{25} = 50ab(a^{23} + 3a^{20}b^3 + 3a^{17}b^6 + b^8)$ $(a + b)^{25} + (a - b)^{25} = 2(a^{25} + 25a^{22}b^3 + 299a^{19}b^6 + b^{25})$ $(a + b)^{26} = a^{26} + 26a^{25}b + 312a^{24}b^2 + 2262a^{23}b^3 + 14560a^{22}b^4 + 85800a^{21}b^5 + 454200a^{20}b^6 + 2002000a^{19}b^7 + 7154400a^{18}b^8 + 23800000a^{17}b^9 + 57200000a^{16}b^{10} + 114400000a^{15}b^{11}$

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